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DRINKING WATER QUALITY OF SELECTED INTERSTATE CARRIER WATER SUPPLIES, 1960 - 1961

Public Health Service
Washington, D. C.

June 1963

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Drinking Water Quality of
Selected Interstate Carrier Water Supplies

1960-1961

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U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
Public Health Service

188

DRINKING WATER QUALITY
of
SELECTED INTERSTATE CARRIER WATER SUPPLIES

1960-1961

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Division of Environmental Engineering and Food Protection
Washington 25, D. C.

Ia

DRINKING WATER QUALITY OF SELECTED INTERSTATE CARRIER WATER SUPPLIES

1960 - 1961

ERRATA AND ADDENDUM

Water Supply Section
Interstate Carrier Branch
Division of Environmental Engineering
and Food Protection
Public Health Service
Department of Health, Education and Welfare

Ic

DRINKING WATER QUALITY OF SELECTED INTERSTATE CARRIER WATER SUPPLIES
1960 - 1961
ERRATA

Page Number	Community	Change
31	Denver, Colorado (Kassler Infiltration Gallery)	Source to Infiltration Gallery.
32	Denver, Colorado (Moffat Plant)	Source to Impounded Reservoir.
37	Hartford, Connecticut	Hardness to 40.
40	Washington, D.C. (Dalecarlia)	Place * before values for Antimony, Bismuth, Cadmium, Chromium, Cobalt, Lead, Manganese, Molybedenum, Tin, Vanadium, Arsenic, and Selenium.
41	Washington, D.C. McMillan)	Place * before values for Antimony, Bismuth, Cadmium, Chromium, Cobalt, Lead, Manganese, Molybedenum, Nickel, Tin, Vanadium, Beryllium, Arsenic, and Selenium.
43	Fort Lauderdale, Florida (Fiveash)	Chromium to *0.0003.
44	Miami, Florida (Orr Plant)	ABS to *.01 Arsenic to *.01 Boron to .0 Calcium to 31.0 Fluoride to 1.15 Hardness to 96 Magnesium to 4.4 Sodium to 7.5
45	Miami, Florida (Hialeah Plant)	ABS to 0.15 Arsenic to .0 Boron to 0.03 Calcium to 27.0 Fluoride to 0.92 Magnesium to 6.8 Sodium to 18.0
50	Savannah, Georgia	Place * before values for Antimony, Bismuth, Cadmium, Chromium, Cobalt, Lead, Manganese, Molybedenum, Nickel, Tin, Vanadium, Zinc, Beryllium, Arsenic, and Selenium.
66	Des Moines, Iowa	Arsenic to *.01
69	Lexington, Kentucky (Main Plant)	Place * before Beryllium. Hardness to 176.
85	Muskegon, Michigan	Barium to 0.01 Bismuth to *0.006 Beryllium to *0.00006

Page Number	Community	Change
90	Jackson, Mississippi	Vanadium to *0.003
94	St. Louis, Missouri (Howard Bend)	Beryllium to *0.0001
101	Trenton, New Jersey	" " *0.00003
102	Berlin, New Hampshire	" " *0.00001
103	Manchester, New Hampshire	Selenium to *0.01
107	Buffalo, New York	Beryllium to *0.00007
108	New York City, New York (Catskill)	Should read Catskill-Delaware Supply. Source: Reservoir Beryllium to *0.00004
109	New York City, New York (Croton)	" " *0.00005 Place * before values for Antimony, Bismuth, Cadmium, Cobalt, Lead, Vanadium, Zinc, Arsenic, Boron and Selenium.
110	New York City, New York (Jamaica)	Beryllium to *0.0001
112	Rochester, New York (L. Hemlock)	" " *0.00005
113	Schenectady, New York	Cadmium to *0.006
114	Troy, New York	Beryllium to *0.00004
116	Charlotte, North Carolina (Vest Station)	Tin to *0.0007
120	Williston, North Dakota	Cobalt to *0.007
129	Allentown, Pennsylvania	Tin to *0.006
132	Philadelphia, Pennsylvania (Belmont Rapid Sand)	" " *0.004
139	Aberdeen, South Dakota	Sodium to 55.0
142	Salt Lake City, Utah (Little Cottonwood)	Boron to 0.03
147	Brownsville, Texas (Plant #2)	Manganese to 0

III

Page Number	Community	Change
163	Portsmouth, Virginia	Place * before values for Antimony, Bismuth, Cadmium, Chromium, Cobalt, Lead, Nickel, Tin, Vanadium, Beryllium, Arsenic, and Selenium.
164	Richmond, Virginia	Place * before values for Antimony, Bismuth, Cadmium, Chromium, Cobalt, Lead, Molybedenum, Nickel, Tin, Vanadium, Zinc, Beryllium, Arsenic, and Selenium.
170	Huntington, West Virginia	Sodium to 38.5
174	Neenah, Wisconsin	Zinc to *0.4 Beryllium to *0.00004

IV

ADDENDUM

KANSAS CITY, KANSAS
(pop 121 901)

Ownership PUBLIC Population Served 200 thousand

River Basin MISSOURI RIVER (Major) KANSAS (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 50 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

November 2 - November 20, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.04
Barium (Ba)	0.07
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.004
Cobalt (Co)	*0.007
Copper (Cu)	0.01
Iron (Fe)	0.01
Lead (Pb)	*0.02
Manganese (Mn)	*0.01
Molybedenum (Mo	0.007
Nickel (Ni)	*0.007
Tin (Sn)	*0.007
Vanadium (V)	*0.007
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.05	
Arsenic (As)	*0.01	
Boron (B)	0.14	
Calcium (Ca)	63.0	
Chlorides (Cl)		
Fluoride (F)	0.6	
Hardness	228.0	
Magnesium (Mg)	2.4	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	30.0	
Sulfates (SO_4)		
Total Dissolved Solids	370.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	6.5
Suspended	0.1
Beta Activity	
Dissolved	0.6
Suspended	3.6

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	50
Carbon Alcohol Extractables (CAE)	124

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TOPEKA, KANSAS
(pop. 119,484)

Ownership PUBLIC Population Served 129.5 thousand

River Basin MISSOURI RIVER (Major) KANSAS (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 40 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 16 - April 1, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.04
Barium (Ba)	0.02
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.004
Cobalt (Co)	*0.007
Copper (Cu)	*0.001
Iron (Fe)	0.07
Lead (Pb)	*0.02
Manganese (Mn)	*0.01
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.007
Tin (Sn)	0.01
Vanadium (V)	*0.007
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.07	
Arsenic (As)	*0.01	
Boron (B)	0.03	
Calcium (Ca)	34.4	30.0
Chlorides (Cl)	60.0	111.0
Fluoride (F)	1.3	1.3
Hardness	104.0	103.0
Magnesium (Mg)	3.9	15.0
Nitrates (NO_3)	2.9	
Selenium (Se)	*0.005	
Sodium (Na)	45.0	
Sulfates (SO_4)	90.0	
Total Dissolved Solids	317.0	
PH		9.1
Color (S.U.)	*1.0	
Temperature °F (Raw Water)		60.0
Turbidity (S.U.)	*1.0	1.0

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	50
Carbon Alcohol Extractables (CAE)	157

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LINCOLN, NEBRASKA
(pop. 128,521)

Ownership PUBLIC Population Served 128,521 thousand

River Basin MISSOURI RIVER (Major) LOWER PLATTE (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range 0-1 mg.

Treatment DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 60 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

October 24 - November 8, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.04
Barium (Ba)	0.1
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.004
Cobalt (Co)	*0.007
Copper (Cu)	0.01
Iron (Fe)	0.01
Lead (Pb)	*0.02
Manganese (Mn)	*0.01
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.007
Tin (Sn)	*0.007
Vanadium (V)	*0.007
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.11	
Calcium (Ca)	54.0	
Chlorides (Cl)		
Fluoride (F)	0.6	
Hardness	176.0	
Magnesium (Mg)	10.0	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	21.0	
Sulfates (SO_4)		
Total Dissolved Solids	366.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	18.6
Suspended	1.2

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	18
Carbon Alcohol Extractables (CAE)	102

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

VIII

FOREWORD

The drinking water quality of 176 selected interstate carrier water supply sources is being determined in a joint program conducted in 1960-1963 by municipalities, State health departments and the Public Health Service. Samples of water are being analyzed for organic chemicals, radiochemicals and trace elements and other determinations generally classed as sanitary chemical analyses. Samples are composite over a two-week period and were collected of finished water at points believed to be most representative of water consumed by residents of the community. The project consists of taking two series of samples of which this publication gives data on the first.

The number of sources constituted about 15% of the nation's interstate carrier water supply sources and about 0.7% of the total U.S. public drinking water supplies. The results are published herein after consultation with and authorization of both the municipal water works officials and the State health departments concerned. Recognition of this cooperative spirit is hereby made.

The results for each plant are presented in a standard manner, together with certain other distinguishing information. Where a figure does not appear opposite a water quality constituent, it was usually not obtained.

Analytical work for sanitary chemical analyses was generally performed in State health departments and municipal water works laboratories. Carbon extract and spectrographic determinations were made in the Central Laboratory of the National Water Quality Network, operated by the Water Quality Section of the Basic Data Branch, Division of Water Supply & Pollution Control. Radiochemical analyses were done in the Southeastern and Southwestern Radiological Health Facilities of the Division of Radiological Health.

The project is under the direction of the Water Supply Section, Interstate Carrier Branch of the Division of Environmental Engineering and Food Protection.

Wesley E. Gilbertson

Wesley E. Gilbertson, Chief
Division of Environmental Engineering
and Food Protection

BIRMINGHAM, ALABAMA
(pop. 340,887)
PUTNAM PUMPING STATION

Ownership PUBLIC Population Served 600 thousand

River Basin SOUTHEAST (Major) WARRIOR RIVER BASIN (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION, DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 12 mgd % Municipal Supply Furnished By Plant 25%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

October 4 - October 18, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.005	ABS	0.02	
Barium (Ba)	0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.002	Boron (B)	0.0	
Cadmium (Cd)	*0.001	Calcium (Ca)	8.8	
Chromium (Cr)	*0.0005	Chlorides (Cl)		
Cobalt (Co)	*0.001	Fluoride (F)	0.0	
Copper (Cu)	0.0004	Hardness	36.0	
Iron (Fe)	0.01	Magnesium (Mg)	3.4	
Lead (Pb)	*0.002	Nitrates (NO_3)		
Manganese (Mn)	0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.001	Sodium (Na)	3.0	
Nickel (Ni)	*0.001	Sulfates (SO_4)		
Tin (Sn)	*0.001	Total Dissolved Solids		
Vanadium (V)	*0.001	PH		
Zinc (Zn)	*0.2	Color (S.U.)		
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	41
Suspended		Carbon Alcohol Extractables (CAE)	123
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BIRMINGHAM, ALABAMA
(pop. 340,887)
SHADES MOUNTAIN FILTER PLANT

Ownership PUBLIC Population Served 600 thousand

River Basin SOUTHEAST (Major) CAHABA RIVER BASIN (Minor)

Source RIVER, LAKE Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 55 mgd % Municipal Supply Furnished By Plant 75%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

October 4 - October 18, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.03
Bismuth (Bi)	*0.009
Cadmium (Cd)	*0.005
Chromium (Cr)	*0.002
Cobalt (Co)	*0.003
Copper (Cu)	*0.0005
Iron (Fe)	0.02
Lead (Pb)	*0.009
Manganese (Mn)	0.009
Molybedenum (Mo)	*0.003
Nickel (Ni)	*0.003
Tin (Sn)	*0.003
Vanadium (V)	*0.003
Zinc (Zn)	*0.9
Beryllium (Be)	*0.00009

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.06	
Arsenic (As)	*0.01	
Boron (B)	0.03	
Calcium (Ca)	27.0	
Chlorides (Cl)		
Fluoride (F)	0.16	
Hardness	108.0	
Magnesium (Mg)	9.7	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	16.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	3.7
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	58
Carbon Alcohol Extractables (CAE)	145

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

GADSDEN, ALABAMA
(pop. 58,088)

Ownership PUBLIC Population Served 68.5 thousand

River Basin SOUTHEAST (Major) COOSA RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 15 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

September 25 - October 10, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.009
Barium (Ba)	0.4
Bismuth (Bi)	*0.005
Cadmium (Cd)	*0.003
Chromium (Cr)	0.002
Cobalt (Co)	0.009
Copper (Cu)	0.003
Iron (Fe)	0.02
Lead (Pb)	*0.005
Manganese (Mn)	0.004
Molybedenum (Mo)	0.002
Nickel (Ni)	*0.002
Tin (Sn)	*0.002
Vanadium (V)	*0.002
Zinc (Zn)	*0.5
Beryllium (Be)	*0.00005

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.04	
Calcium (Ca)	20.0	
Chlorides (Cl)		
Fluoride (F)	0.10	
Hardness	80.0	
Magnesium (Mg)	7.3	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	8.8	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	3.4
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	77
Carbon Alcohol Extractables (CAE)	122

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MOBILE, ALABAMA
(pop. 202,779)

Ownership PUBLIC Population Served 200 thousand

River Basin SOUTHEAST (Major) MOBILE BAY AREA (Minor)

Source STREAM, CREEK, IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION, DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 40 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

November 16 - December 2, 1961

Results By Spectographic Analyses | Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.004	ABS	0.03	
Barium (Ba)	0.009	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.002	Boron (B)	0.06	
Cadmium (Cd)	*0.001	Calcium (Ca)	12.0	
Chromium (Cr)	*0.0004	Chlorides (Cl)		
Cobalt (Co)	*0.0009	Fluoride (F)	0.6	0.8
Copper (Cu)	0.002	Hardness	32.0	
Iron (Fe)	0.02	Magnesium (Mg)	0.5	
Lead (Pb)	*0.002	Nitrates (NO_3)		
Manganese (Mn)	0.003	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.0009	Sodium (Na)	1.8	
Nickel (Ni)	*0.0009	Sulfates (SO_4)		
Tin (Sn)	0.001	Total Dissolved Solids	43.0	
Vanadium (V)	*0.0009	PH		9.1
Zinc (Zn)	*0.2	Color (S.U.)		2.0
Beryllium (Be)	*0.00002	Temperature $^{\circ}$F (Raw Water)		68.0
		Turbidity (S.U.)		

Results By Radiochemical Analyses | Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	54
Suspended		Carbon Alcohol Extractables (CAE)	108
Beta Activity			
Dissolved	6.3		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MONTGOMERY, ALABAMA
(pop. 134,393)
COURT STREET PUMPING STATION

Ownership PUBLIC Population Served 160 thousand

River Basin SOUTHEAST (Major) ALABAMA RIVER BASIN (Minor)

Source WELLS Raw Water Capacity Range ____________

Treatment DISINFECTION

Design Capacity 9 mgd % Municipal Supply Furnished By Plant 25%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

May 30 - June 13, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	*0.005
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	*0.002
Cobalt (Co)	*0.005
Copper (Cu)	0.002
Iron (Fe)	0.01
Lead (Pb)	*0.01
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.005
Nickel (Ni)	*0.005
Tin (Sn)	*0.005
Vanadium (V)	*0.005
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	0.01	
Boron (B)	0.27	
Calcium (Ca)	4.0	
Chlorides (Cl)		
Fluoride (F)	0.4	
Hardness	12.0	
Magnesium (Mg)	0.5	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	54.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	24
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MONTGOMERY, ALABAMA
(pop. 134,393)
DAY STREET PUMPING STATION

Ownership PUBLIC Population Served 160 thousand

River Basin SOUTHEAST (Major) ALABAMA RIVER BASIN (Minor)

Source WELLS Raw Water Capacity Range

Treatment DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 32 mgd % Municipal Supply Furnished By Plant 75%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

May 31 - June 15, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.02
Barium (Ba)	0.01
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.008
Chromium (Cr)	*0.003
Cobalt (Co)	*0.005
Copper (Cu)	0.002
Iron (Fe)	0.01
Lead (Pb)	*0.01
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.005
Nickel (Ni)	0.02
Tin (Sn)	*0.005
Vanadium (V)	*0.005
Zinc (Zn)	*0.01
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.18	
Calcium (Ca)	14.0	
Chlorides (Cl)		
Fluoride (F)	0.6	
Hardness	52.0	
Magnesium (Mg)	3.9	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	52.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	12
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

STEVENSON, ALABAMA
(pop. 1,456)
TENNESSEE VALLEY AUTHORITY WIDOWS CREEK STEAM PLANT

Ownership PRIVATE Population Served 8 thousand

River Basin TENNESSEE RIVER (Major) MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION

Design Capacity 4 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

June 7 - June 22, 1961

Results By
Spectographic Analvses

	mg/1
Antimony (Sb)	*0.05
Barium (Ba)	*0.01
Bismuth (Bi)	*0.03
Cadmium (Cd)	0.02
Chromium (Cr)	*0.005
Cobalt (Co)	0.03
Copper (Cu)	0.002
Iron (Fe)	0.02
Lead (Pb)	*0.03
Manganese (Mn)	*0.02
Molybedenum (Mo)	*0.01
Nickel (Ni)	0.4
Tin (Sn)	*0.01
Vanadium (V)	*0.01
Zinc (Zn)	*3.0
Beryllium (Be)	*0.0003

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.07	
Calcium (Ca)	22.0	
Chlorides (Cl)		
Fluoride (F)	0.13	
Hardness	76.0	72.0
Magnesium (Mg)	5.3	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	18.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		8.3
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		0.0

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	37.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	84
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

FAIRBANKS, ALASKA
(pop. 13,311)

Ownership PUBLIC Population Served 4 thousand

River Basin PACIFIC NORTHWEST (Major) ALASKA (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment PURIFICATION, DISINFECTION, SOFTENING, IRON & MANGANESE REMOVAL

Design Capacity 1.2 mgd % Municipal Supply Furnished By Plant

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 24 - February 7, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.02
Barium (Ba)	0.04
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.005
Chromium (Cr)	0.006
Cobalt (Co)	*0.004
Copper (Cu)	*0.0006
Iron (Fe)	0.2
Lead (Pb)	*0.01
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.004
Nickel (Ni)	*0.004
Tin (Sn)	0.01
Vanadium (V)	*0.004
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.02	
Arsenic (As)	0.01	
Boron (B)	0.0	
Calcium (Ca)	31.2	86.0
Chlorides (Cl)	11.0	
Fluoride (F)	0.4	
Hardness	128.0	117.0
Magnesium (Mg)	12.2	41.0
Nitrates (NO_3)	0.6	
Selenium (Se)	*0.005	
Sodium (Na)	5.5	
Sulfates (SO_4)	51.0	
Total Dissolved Solids	192.0	
PH		8.6
Color (S.U.)	5.0	
Temperature °F (Raw Water)		49.0
Turbidity (S.U.)	0.2	

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	51
Carbon Alcohol Extractables (CAE)	121

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHOENIX, ARIZONA
(pop. 439,170)
SAMPLING POINT #1

Ownership PUBLIC   Population Served 500 thousand

River Basin COLORADO RIVER (Major)   GILA RIVER BASIN (Minor)

Source RIVER   Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 30 mgd   % Municipal Supply Furnished By Plant ____

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

July 25 - August 8, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.05
Barium (Ba)	0.1
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.005
Cobalt (Co)	*0.01
Copper (Cu)	0.02
Iron (Fe)	0.1
Lead (Pb)	*0.02
Manganese (Mn)	*0.02
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.01
Tin (Sn)	*0.01
Vanadium (V)	*0.01
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.12	
Calcium (Ca)	47.0	
Chlorides (Cl)	136.0	87.0
Fluoride (F)	0.42	
Hardness	192.0	145.0
Magnesium (Mg)	18.0	
Nitrates (NO_3)	2.0	
Selenium (Se)	*0.01	
Sodium (Na)	85.0	
Sulfates (SO_4)	58.0	
Total Dissolved Solids	494.0	
PH		6.0
Color (S.U.)	0.0	0.0
Temperature °F (Raw Water)		47.0
Turbidity (S.U.)	0.0	0.0

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*1.0
Suspended	*1.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	75
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHOENIX, ARIZONA
(pop. 439.170)
SAMPLING POINT #2

Ownership Public Population Served 500 thousand

River Basin Colorado River (Major) Gila River Basin (Minor)

Source River Raw Water Capacity Range Unlimited

Treatment Purification & Disinfection

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ________

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 25 - August 8, 1961

Results By Spectographic Analyses

	mg/1
Antimony (Sb)	*0.06
Barium (Ba)	0.05
Bismuth (Bi)	*0.03
Cadmium (Cd)	*0.02
Chromium (Cr)	*0.006
Cobalt (Co)	*0.01
Copper (Cu)	0.01
Iron (Fe)	0.03
Lead (Pb)	*0.03
Manganese (Mn)	*0.02
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.01
Tin (Sn)	*0.01
Vanadium (V)	*0.01
Zinc (Zn)	*3.0
Beryllium (Be)	*0.0003

Results By Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.05	
Arsenic (As)	*0.01	
Boron (B)	0.14	
Calcium (Ca)	50.0	
Chlorides (Cl)	210.0	
Fluoride (F)	0.42	
Hardness	228.0	
Magnesium (Mg)	42.0	
Nitrates (NO_3)	1.0	
Selenium (Se)	*0.01	
Sodium (Na)	120.0	
Sulfates (SO_4)	69.0	
Total Dissolved Solids	601.0	
PH		
Color (S.U.)	0.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	6.6
Suspended	*1.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	148
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHOENIX, ARIZONA
(pop. 439,170)
SAMPLING POINT #3

Ownership Public Population Served 500 thousand

River Basin Colorado River (Major) Gila River Basin (Minor)

Source River Raw Water Capacity Range Unlimited

Treatment Purification & Disinfection

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ____

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

May 15 - May 28, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.1
Barium (Ba)	0.1
Bismuth (Bi)	*0.07
Cadmium (Cd)	*0.04
Chromium (Cr)	0.01
Cobalt (Co)	*0.03
Copper (Cu)	0.05
Iron (Fe)	*0.03
Lead (Pb)	*0.07
Manganese (Mn)	*0.05
Molybedenum (Mo)	*0.03
Nickel (Ni)	0.04
Tin (Sn)	*0.03
Vanadium (V)	*0.03
Zinc (Zn)	*7.[illegible]
Beryllium (Be)	*0.0007

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.5	
Calcium (Ca)	81.0	
Chlorides (Cl)	490.0	
Fluoride (F)	0.62	
Hardness	436.0	
Magnesium (Mg)	57.0	
Nitrates (NO_3)	15.0	
Selenium (Se)	*0.01	
Sodium (Na)	220.0	
Sulfates (SO_4)	148.0	
Total Dissolved Solids	1320.0	
PH		
Color (S.U.)	0.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.[illegible]	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	28
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHOENIX, ARIZONA
(pop. 439,170)
SAMPLING POINT # 4

Ownership Public Population Served 500 thousand

River Basin Colorado River (Major) Gila River Basin (Minor)

Source River Raw Water Capacity Range Unlimited

Treatment purification & Disinfection

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ____

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 25 - August 8, 1961

Results By Spectographic Analvses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.1	ABS	0.2	
Barium (Ba)	0. 6	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.06	Boron (B)	0.1	
Cadmium (Cd)	*0.04	Calcium (Ca)	132.0	
Chromium (Cr)	0.04	Chlorides (Cl)	335.0	
Cobalt (Co)	*0.03	Fluoride (F)	0.51	
Copper (Cu)	*0.004	Hardness	736.0	
Iron (Fe)	0.05	Magnesium (Mg)	99.0	
Lead (Pb)	*0.06	Nitrates (NO_3)	15.5	
Manganese (Mn)	*0.05	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.03	Sodium (Na)	82.0	
Nickel (Ni)	*0.03	Sulfates (SO_4)		
Tin (Sn)	*0.03	Total Dissolved Solids	1362.0	
Vanadium (V)	*0.03	PH		
Zinc (Zn)	*6.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0006	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractabies (CCE)	13
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	6.3		
Suspended	*1.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHOENIX, ARIZONA
(pop. 439,170)
SAMPLING POINT # 5

Ownership Public Population Served 500 thousand

River Basin Colorado River (Major) Gila River Basin (Minor)

Source River Raw Water Capacity Range Unlimited

Treatment Purification & Disinfection

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ________

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

July 25 - August 8, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.06	ABS	0.16	
Barium (Ba)	*0.01	Arsenic (As)	0.01	
Bismuth (Bi)	*0.03	Boron (B)	0.14	
Cadmium (Cd)	*0.02	Calcium (Ca)	74.0	
Chromium (Cr)	0.03	Chlorides (Cl)	167.0	
Cobalt (Co)	*0.01	Fluoride (F)	0.42	
Copper (Cu)	0.03	Hardness	400.0	
Iron (Fe)	0.06	Magnesium (Mg)	52.0	
Lead (Pb)	*0.03	Nitrates (NO_3)	7.7	
Manganese (Mn)	*0.03	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.01	Sodium (Na)	50.0	
Nickel (Ni)	*0.01	Sulfates (SO_4)	74.0	
Tin (Sn)	*0.01	Total Dissolved Solids	775.0	
Vanadium (V)	*0.01	PH		
Zinc (Zn)	*3.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0003	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved	1.5	Carbon Chloroform Extractables (CCE)	10
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	5.2		
Suspended	*1.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHOENIX, ARIZONA
(pop. 439,170)
SQUAW PEAK PLANT

Ownership PUBLIC　Population Served 500 thousand

River Basin COLORADO RIVER (Major)　GILA RIVER BASIN (Minor)

Source RIVER　Raw Water Capacity Range Unlimited

Treatment PURIFICATION & DISINFECTION

Design Capacity 90 mgd　% Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 25 - August 8, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.06
Barium (Ba)	0.04
Bismuth (Bi)	*0.03
Cadmium (Cd)	*0.02
Chromium (Cr)	*0.006
Cobalt (Co)	*0.01
Copper (Cu)	*0.002
Iron (Fe)	0.02
Lead (Pb)	*0.03
Manganese (Mn)	*0.02
Molybedenum (Mo)	*0.01
Nickel (Ni)	*0.01
Tin (Sn)	*0.01
Vanadium (V)	*0.01
Zinc (Zn)	*3.0
Beryllium (B	*0.0003

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.04	
Arsenic (As)	*0.01	
Boron (B)	0.14	
Calcium (Ca)	49.0	
Chlorides (Cl)	230.0	119.0
Fluoride (F)	0.3	
Hardness	220.0	113.0
Magnesium (Mg)	24.0	
Nitrates (NO_3)	*0.1	
Selenium (Se)	*0.01	
Sodium (Na)	120.0	
Sulfates (SO_4)		
Total Dissolved Solids	604.0	
PH		7.6
Color (S.U.)	0.0	0.0
Temperature °F (Raw Water)		62.0
Turbidity (S.U.)	0.0	0.0

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	6.2
Suspended	*1.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	103
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TUCSON, ARIZONA
(pop. 212,892)
PLANT # 1

Ownership PUBLIC Population Served 223 thousand

River Basin COLORADO RIVER (Major) GILA RIVER BASIN (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range —

Treatment Disinfection

Design Capacity ____ mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

May 1 - May 16, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.05	ABS	*0.01	
Barium (Ba)	0.05	Arsenic (As)	0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.2	
Cadmium (Cd)	*0.01	Calcium (Ca)	53.0	
Chromium (Cr)	*0.005	Chlorides (Cl)	20.0	
Cobalt (Co)	*0.009	Fluoride (F)	1.1	
Copper (Cu)	*0.001	Hardness	204.0	
Iron (Fe)	0.02	Magnesium (Mg)	18.0	
Lead (Pb)	*0.02	Nitrates (NO_3)	4.0	
Manganese (Mn)	*0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.04	Sodium (Na)	60.0	
Nickel (Ni)	0.02	Sulfates (SO_4)	129.0	
Tin (Sn)	*0.009	Total Dissolved Solids	463.0	
Vanadium (V)	*0.009	PH		
Zinc (Zn)	*2.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0.02	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	16
Suspended		Carbon Alcohol Extractables (CAE)	30
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TUCSON, ARIZONA
(pop. 212,892)
PLANT # 2

Ownership Public Population Served 223 thousand

River Basin Colorado River (Major) Gila River Basin (Minor)

Source Ground Water Supply Raw Water Capacity Range

Treatment Disinfection

Design Capacity mgd % Municipal Supply Furnished By Plant

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

June 8 - June 21, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.06	ABS	0.04	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.03	Boron (B)	0.12	
Cadmium (Cd)	*0.02	Calcium (Ca)	85.0	
Chromium (Cr)	*0.006	Chlorides (Cl)		
Cobalt (Co)	*0.01	Fluoride (F)	0.5	
Copper (Cu)	*0.002	Hardness	324.0	
Iron (Fe)	0.02	Magnesium (Mg)	27.0	
Lead (Pb)	*0.03	Nitrates (NO_3)		
Manganese (Mn)	*0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.01	Sodium (Na)	30.0	
Nickel (Ni)	*0.01	Sulfates (SO_4)		
Tin (Sn)	*0.01	Total Dissolved Solids		
Vanadium (V)	*0.01	PH		
Zinc (Zn)	*3.0	Color (S.U.)		
Beryllium (Be)	*0.0003	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved	3.5	Carbon Chloroform Extractables (CCE)	22
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	5.0		
Suspended	*1.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TUCSON, ARIZONA
(pop. 212,892)
PLANT # 3

Ownership Public Population Served 223 thousand

River Basin Colorado River (Major) Gila River Basin (Minor)

Source Ground Water Supply Raw Water Capacity Range -

Treatment Disinfection

Design Capacity mgd % Municipal Supply Furnished By Plant

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 17 - June 1, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.03	ABS	0.02	
Barium (Ba)	0.09	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.07	
Cadmium (Cd)	*0.009	Calcium (Ca)	40.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	13.0	
Cobalt (Co)	*0.006	Fluoride (F)	0.0	
Copper (Cu)	0.002	Hardness	124.0	
Iron (Fe)	0.06	Magnesium (Mg)	5.8	
Lead (Pb)	*0.01	Nitrates (NO_3)	9.0	
Manganese (Mn)	*0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.009	Sodium (Na)	29.0	
Nickel (Ni)	*0.006	Sulfates (SO_4)	38.0	
Tin (Sn)	*0.006	Total Dissolved Solids	207.0	
Vanadium (V)	*0.006	PH		
Zinc (Zn)	*1.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	15
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WINSLOW, ARIZONA
(pop. 8,862)

Ownership PUBLIC Population Served 9 thousand

River Basin COLORADO RIVER (Major) LITTLE COLORADO RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range Unlimited

Treatment PURIFICATION & DISINFECTION

Design Capacity mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

May 16 - May 31, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.07	ABS	*0.01	
Barium (Ba)	*0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.04	Boron (B)	0.06	
Cadmium (Cd)	*0.02	Calcium (Ca)	54.0	
Chromium (Cr)	*0.007	Chlorides (Cl)	25.0	
Cobalt (Co)	*0.01	Fluoride (F)	0.3	
Copper (Cu)	*0.002	Hardness	352.0	
Iron (Fe)	0.02	Magnesium (Mg)	53.0	
Lead (Pb)	*0.04	Nitrates (NO_3)	1.2	
Manganese (Mn)	*0.03	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.01	Sodium (Na)	116.0	
Nickel (Ni)	*0.01	Sulfates (SO_4)	97.0	
Tin (Sn)	*0.01	Total Dissolved Solids	764.0	
Vanadium (V)	*0.01	PH		
Zinc (Zn)	*4.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0004	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	22
Suspended		Carbon Alcohol Extractables (CAE)	72
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DUNSMUIR, CALIFORNIA
(pop. 2,873)

Ownership PRIVATE Population Served 4 thousand

River Basin CALIFORNIA (Major) KLAMATH RIVER (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range ______

Treatment ______

Design Capacity ____ mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

September 28 - October 12, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.009	ABS	0.02	
Barium (Ba)	*0.002	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.005	Boron (B)	0.03	
Cadmium (Cd)	*0.003	Calcium (Ca)	11.0	
Chromium (Cr)	*0.0009	Chlorides (Cl)	0.7	
Cobalt (Co)	*0.002	Fluoride (F)	0.0	
Copper (Cu)	0.004	Hardness	48.0	
Iron (Fe)	0.02	Magnesium (Mg)	4.9	
Lead (Pb)	*0.005	Nitrates (NO_3)	0.1	
Manganese (Mn)	*0.004	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.002	Sodium (Na)	5.8	
Nickel (Ni)	*0.002	Sulfates (SO_4)	0.4	
Tin (Sn)	*0.002	Total Dissolved Solids	110.0	
Vanadium (V)	0.009	PH		
Zinc (Zn)	*0.5	Color (S.U.)	0.0	
Beryllium (Be)	*0.00005	Temperature °F (Raw Water)		
		Turbidity (S.U.)	1.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	8
Suspended		Carbon Alcohol Extractables (CAE)	29
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

FRESNO, CALIFORNIA
(pop. 133,929)

Ownership PUBLIC Population Served 150 thousand

River Basin CALIFORNIA (Major) SAN JOAQUIN RIVER (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range ____

Treatment ____

Design Capacity 180 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

October 2 - October 18, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	0.03
Bismuth (Bi)	*0.007
Cadmium (Cd)	*0.004
Chromium (Cr)	0.004
Cobalt (Co)	*0.003
Copper (Cu)	*0.1
Iron (Fe)	0.7
Lead (Pb)	0.03
Manganese (Mn)	*0.006
Molybedenum (Mo)	0.01
Nickel (Ni)	0.004
Tin (Sn)	*0.003
Vanadium (V)	0.07
Zinc (Zn)	*0.7
Beryllium (Be)	* 0.00007

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.01	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	10.0	
Chlorides (Cl)	3.2	
Fluoride (F)	0.3	
Hardness	56.0	
Magnesium (Mg)	7.3	
Nitrates (NO_3)	1.7	
Selenium (Se)	*0.01	
Sodium (Na)	11.0	
Sulfates (SO_4)	3.2	
Total Dissolved Solids	140.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	3.5
Suspended	2.3

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	9
Carbon Alcohol Extractables (CAE)	37

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LOS ANGELES, CALIFORNIA
(pop. 2,479,015)
LOS ANGELES RIVER CONDUIT SYSTEM

Ownership PUBLIC Population Served 2,510 thousand

River Basin GREAT BASIN (Major) OWENS RIVER (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range 100 m.- 1 bil.gl.

Treatment DISINFECTION

Design Capacity 325 mgd % Municipal Supply Furnished By Plant

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

August 28 - September 12, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.05
Barium (Ba)	0.09
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.005
Cobalt (Co)	*0.009
Copper (Cu)	0.002
Iron (Fe)	0.05
Lead (Pb)	*0.02
Manganese (Mn)	*0.02
Molybedenum (Mo)	0.04
Nickel (Ni)	*0.009
Tin (Sn)	*0.009
Vanadium (V)	*0.009
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.11	
Arsenic (As)	*0.01	
Boron (B)	0.2	
Calcium (Ca)	75.0	
Chlorides (Cl)		
Fluoride (F)	0.6	
Hardness	264.0	
Magnesium (Mg)	18.0	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	50.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	27
Carbon Alcohol Extractables (CAE)	80

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LOS ANGELES, CALIFORNIA
(pop. 2,479,015)
EAGLE ROCK RESERVOIR
(See Los Angeles River Conduit System)

Ownership ____________ Population Served ______ thousand

River Basin ____________ (Major) ____________ (Minor)

Source ____________ Raw Water Capacity Range ____________

Treatment ____________

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ____________

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 26 - August 9, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.08	ABS	0.02	
Barium (Ba)	*0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.04	Boron (B)	0.24	
Cadmium (Cd)	*0.02	Calcium (Ca)	61.0	
Chromium (Cr)	*0.008	Chlorides (Cl)		
Cobalt (Co)	*0.02	Fluoride (F)	0.5	
Copper (Cu)	*0.002	Hardness	240.0	
Iron (Fe)	0.03	Magnesium (Mg)	21.0	
Lead (Pb)	*0.04	Nitrates (NO_3)		
Manganese (Mn)	*0.03	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.02	Sodium (Na)	122.0	
Nickel (Ni)	*0.02	Sulfates (SO_4)		
Tin (Sn)	*0.02	Total Dissolved Solids		
Vanadium (V)	*0.02	PH		
Zinc (Zn)	*4.0	Color (S.U.)		
Beryllium (Be)	*0.0004	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	103
Suspended		Carbon Alcohol Extractables (CAE)	163
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LOS ANGELES, CALIFORNIA
(pop. 2,479.015)
FOOT HILL PUMPING PLANT
(See Los Angeles River Conduit System)

Ownership ________ Population Served ______ thousand

River Basin ________ (Major) ________ (Minor)

Source ________ Raw Water Capacity Range ________

Treatment ________

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ________

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

August 16 - August 30, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.03
Barium (Ba)	0.09
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.009
Chromium (Cr)	*0.003
Cobalt (Co)	*0.006
Copper (Cu)	0.01
Iron (Fe)	0.02
Lead (Pb)	*0.02
Manganese (Mn)	*0.01
Molybedenum (Mo)	0.02
Nickel (Ni)	*0.006
Tin (Sn)	*0.006
Vanadium (V)	*0.006
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.08	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	42.0	
Chlorides (Cl)		
Fluoride (F)	0.4	
Hardness	168.0	
Magnesium (Mg)	15.0	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	33.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	23
Carbon Alcohol Extractables (CAE)	121

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LOS ANGELES, CALIFORNIA
(pop. 2,479,015)
LOWER VAN NORMAN RESERVOIR

(See Los Angeles River Conduit System)

Ownership ________ Population Served ______ thousand

River Basin ____________ (Major) ____________ (Minor)

Source ____________ Raw Water Capacity Range ________

Treatment ____________

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ________

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

July 6 - July 20, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.03	ABS	0.01	
Barium (Ba)	0.005	Arsenic (As)	0.03	
Bismuth (Bi)	*0.01	Boron (B)	0.53	
Cadmium (Cd)	*0.008	Calcium (Ca)	27.0	
Chromium (Cr)	*0.003	Chlorides (Cl)		
Cobalt (Co)	*0.005	Fluoride (F)	0.5	
Copper (Cu)	0.2	Hardness	100.0	
Iron (Fe)	0.05	Magnesium (Mg)	7.8	
Lead (Pb)	*0.01	Nitrates (NO_3)		
* Manganese (Mn)		Selenium (Se)	*0.01	
Molybedenum (Mo)	0.01	Sodium (Na)	32.0	
Nickel (Ni)	*0.005	Sulfates (SO_4)		
Tin (Sn)	*0.005	Total Dissolved Solids		
Vanadium (V)	*0.005	PH		
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	66
Suspended		Carbon Alcohol Extractables (CAE)	94
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LOS ANGELES, CALIFORNIA
(pop. 2.479.015)
MULLHOLLAND RESERVOIR
(See Los Angeles River Conduit System)

Ownership ______________ Population Served _______ thousand

River Basin ______________ (Major) ______________ (Minor)

Source ______________ Raw Water Capacity Range ____________

Treatment ______________________________

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ________

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

September 14 - September 28, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.03	ABS	0.08	
Barium (Ba)	0.07	Arsenic (As)	0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.07	
Cadmium (Cd)	*0.01	Calcium (Ca)	44.0	
Chromium (Cr)	0.003	Chlorides (Cl)		
Cobalt (Co)	*0.007	Fluoride (F)	0.6	
Copper (Cu)	0.3	Hardness	184.0	
Iron (Fe)	0.1	Magnesium (Mg)	18.0	
Lead (Pb)	*0.02	Nitrates (NO_3)		
Manganese (Mn)	0.03	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.03	Sodium (Na)	54.0	
Nickel (Ni)	*0.007	Sulfates (SO_4)		
Tin (Sn)	*0.007	Total Dissolved Solids		
Vanadium (V)	*0.007	PH		
Zinc (Zn)	*2.0	Color (S.U.)		
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	53
Suspended		Carbon Alcohol Extractables (CAE)	72
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LOS ANGELES, CALIFORNIA
(pop. 2,479,015)
SAN PEDRO @ CHLORINATION POINT

(See Los Angeles River Conduit System)

Ownership ________ Population Served ________ thousand

River Basin ________ (Major) ________ (Minor)

Source ________ Raw Water Capacity Range ________

Treatment ________

Design Capacity ____ mgd % Municipal Supply Furnished By Plant ________

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

July 13 - July 27, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.04	ABS	0.04	
Barium (Ba)	0.1	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.2	
Cadmium (Cd)	*0.01	Calcium (Ca)	64.0	
Chromium (Cr)	*0.004	Chlorides (Cl)		
Cobalt (Co)	*0.008	Fluoride (F)	0.4	
Copper (Cu)	0.02	Hardness	263.0	
Iron (Fe)	0.04	Magnesium (Mg)	26.0	
Lead (Pb)	*0.02	Nitrates (NO_3)		
Manganese (Mn)	0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.02	Sodium (Na)	107.0	
Nickel (Ni)	*0.008	Sulfates (SO_4)		
Tin (Sn)	*0.008	Total Dissolved Solids		
Vanadium (V)	*0.008	PH		
Zinc (Zn)	*2.0	Color (S.U.)		
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	57
Suspended		Carbon Alcohol Extractables (CAE)	166
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MARTINEZ, CALIFORNIA
(pop. 9.604)

Ownership PUBLIC Population Served 15 thousand

River Basin CALIFORNIA (Major) SACRAMENTO RIVER (Minor)

Source RIVER Raw Water Capacity Range 0-1 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity 4.0 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 8 - March 22, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.06
Barium (Ba)	0.1
Bismuth (Bi)	*0.03
Cadmium (Cd)	*0.02
Chromium (Cr)	*0.006
Cobalt (Co)	*0.01
Copper (Cu)	0.04
Iron (Fe)	0.06
Lead (Pb)	*0.03
Manganese (Mn)	*0.02
Molybedenum (Mo)	*0.01
Nickel (Ni)	*0.01
Tin (Sn)	*0.01
Vanadium (V)	*0.01
Zinc (Zn)	*3.0
Beryllium (Be)	*0.0003

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.08	
Arsenic (As)	0.0	
Boron (B)	0.5	
Calcium (Ca)	56.8	
Chlorides (Cl)	155.0	84.0
Fluoride (F)	0.3	
Hardness	268.0	152.0
Magnesium (Mg)	30.6	
Nitrates (NO_3)	1.7	
Selenium (Se)	*0.005	
Sodium (Na)	80.0	
Sulfates (SO_4)	10.0	
Total Dissolved Solids	586.0	
PH		7.4
Color (S.U.)	5.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.9	1.0

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	33
Carbon Alcohol Extractables (CAE)	225

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NEEDLES, CALIFORNIA
(pop. 4,590)

Ownership PUBLIC Population Served 4.9 thousand

River Basin COLORADO RIVER (Major) MIDDLE COLORADO RIVER BASIN (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment

Design Capacity 5.1 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

July 18 - August 4, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.1
Barium (Ba)	*0.02
Bismuth (Bi)	*0.05
Cadmium (Cd)	*0.03
Chromium (Cr)	*0.01
Cobalt (Co)	*0.02
Copper (Cu)	*0.003
Iron (Fe)	*0.02
Lead (Pb)	*0.05
Manganese (Mn)	*0.04
Molybedenum (Mo)	0.04
Nickel (Ni)	*0.02
Tin (Sn)	*0.02
Vanadium (V)	*0.02
Zinc (Zn)	*5.0
Beryllium (Be)	*0.0005

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.23	
Calcium (Ca)	90.0	
Chlorides (Cl)		
Fluoride (F)		
Hardness	376.0	
Magnesium (Mg)	36.0	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	155.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	8.2
Suspended	*1.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	112
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SACRAMENTO, CALIFORNIA
(pop. 191,667)

Ownership PUBLIC Population Served 181 thousand

River Basin CALIFORNIA (Major) SACRAMENTO RIVER (Minor)

Source GROUND WATER SUPPLY-RIVER Raw Water Capacity Range 0-1 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity 90 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

March 1 - March 15, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	0.04
Bismuth (Bi)	*0.005
Cadmium (Cd)	*0.003
Chromium (Cr)	*0.001
Cobalt (Co)	*0.002
Copper (Cu)	0.007
Iron (Fe)	0.04
Lead (Pb)	*0.005
Manganese (Mn)	0.005
Molybedenum (Mo)	0.003
Nickel (Ni)	*0.002
Tin (Sn)	*0.002
Vanadium (V)	0.002
Zinc (Zn)	*0.5
Beryllium (Be)	*0.00005

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	0.0	
Boron (B)	0.06	
Calcium (Ca)	18.4	16.0
Chlorides (Cl)		10.0
Fluoride (F)	0.1	
Hardness	80.0	62.0
Magnesium (Mg)	8.2	
Nitrates (NO_3)		
Selenium (Se)	*0.005	
Sodium (Na)	6.5	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		7.8
Color (S.U.)		
Temperature °F (Raw Water)		57.0
Turbidity (S.U.)		0.0

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	69
Carbon Alcohol Extractables (CAE)	98

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DENVER, COLORADO
(pop. 493,887)
KASSLER FILTER BED

Ownership PUBLIC Population Served 612 thousand

River Basin MISSOURI RIVER (Major) SOUTH PLATTE (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 30 mgd % Municipal Supply Furnished By Plant 15%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

February 15 - March 1, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.04	
Barium (Ba)	0.05	Arsenic (As)	0.006	
Bismuth (Bi)	*0.01	Boron (B)	0.04	
Cadmium (Cd)	*0.007	Calcium (Ca)	32.8	
Chromium (Cr)	*0.002	Chlorides (Cl)	42.0	
Cobalt (Co)	*0.005	Fluoride (F)	1.22	0.8
Copper (Cu)	0.009	Hardness	136.0	107.0
Iron (Fe)	0.07	Magnesium (Mg)	13.1	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.6	
Manganese (Mn)	*0.009	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.009	Sodium (Na)	23.0	
Nickel (Ni)	*0.005	Sulfates (SO_4)	52.0	
Tin (Sn)	*0.005	Total Dissolved Solids	229.0	
Vanadium (V)	*0.005	PH		7.8
Zinc (Zn)	*1.0	Color (S.U.)	10.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)	3.3	1.0

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	55
Suspended		Carbon Alcohol Extractables (CAE)	132
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DENVER, COLORADO
(pop. 493,887)
KASSLER INFILTRATION GALLERY

Ownership PUBLIC Population Served 612 thousand

River Basin COLORADO RIVER (Major) UPPER COLORADO RIVER BASIN (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. / gal.

Treatment PURIFICATION, & DISINFECTION

Design Capacity 136 mgd % Municipal Supply Furnished By Plan 43%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

February 15 - March 2, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.03	
Barium (Ba)	0.07	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.04	
Cadmium (Cd)	*0.007	Calcium (Ca)	34.4	
Chromium (Cr)	*0.002	Chlorides (Cl)	38.0	
Cobalt (Co)	*0.005	Fluoride (F)	1.2	
Copper (Cu)	0.002	Hardness	140.0	
Iron (Fe)	0.01	Magnesium (Mg)	13.1	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.7	
Manganese (Mn)	*0.009	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.009	Sodium (Na)	21.0	
Nickel (Ni)	*0.005	Sulfates (SO_4)	53.0	
Tin (Sn)	*0.005	Total Dissolved Solids	240.0	
Vanadium (V)	*0.005	PH		
Zinc (Zn)	*1.0	Color (S.U.)	5.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)	1.9	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	43
Suspended		Carbon Alcohol Extractables (CAE)	122
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DENVER, COLORADO
(pop. 493,887)
MOFFAT PLANT

Ownership PUBLIC Population Served 612 thousand

River Basin MISSOURI RIVER (Major) SOUTH PLATTE (Minor)

Source INFILTRATION GALLERY Raw Water Capacity Range

Treatment PURIFICATION & DISINFECTION

Design Capacity 5 mgd % Municipal Supply Furnished By Plant 5%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

February 14 - March 3, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.006	ABS	0.02	
Barium (Ba)	0.01	Arsenic (As)	0.01	
Bismuth (Bi)	*0.003	Boron (B)	0.02	
Cadmium (Cd)	*0.002	Calcium (Ca)	11.2	
Chromium (Cr)	*0.0006	Chlorides (Cl)	*10.0	
Cobalt (Co)	*0.001	Fluoride (F)	1.0	0.9
Copper (Cu)	0.05	Hardness	40.0	40.0
Iron (Fe)	0.003	Magnesium (Mg)	2.9	
Lead (Pb)	*0.003	Nitrates (NO_3)	0.1	
Manganese (Mn)	0.003	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.003	Sodium (Na)	2.5	
Nickel (Ni)	0.001	Sulfates (SO_4)	15.0	
Tin (Sn)	0.005	Total Dissolved Solids	61.0	
Vanadium (V)	*0.001	PH		7.5
Zinc (Zn)	*0.3	Color (S.U.)	5.0	
Beryllium (Be)	*0.00003	Temperature °F (Raw Water)		68.0
		Turbidity (S.U.)	2.7	0.5

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	57
Suspended		Carbon Alcohol Extractables (CAE)	83
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DENVER, COLORADO
(pop. 493,887)
NORTH MARSTON LAKE

Ownership PUBLIC Population Served 612 thousand

River Basin MISSOURI RIVER (Major) SOUTH PLATTE (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. / gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 64 mgd % Municipal Supply Furnished By Plant 27%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

February 15 - March 2, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.02	
Barium (Ba)	0.06	Arsenic (As)	0.006	
Bismuth (Bi)	*0.01	Boron (B)	0.0	
Cadmium (Cd)	*0.006	Calcium (Ca)	30.4	
Chromium (Cr)	*0.002	Chlorides (Cl)	30.0	
Cobalt (Co)	*0.004	Fluoride (F)	1.12	0.9
Copper (Ca)	0.008	Hardness	124.0	115.0
Iron (Fe)	0.008	Magnesium (Mg)	10.7	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.0	
Manganese (Mn)	0.2	Selenium (Se)	0.0	
Molybedenum (Mo)	0.2	Sodium (Na)	20.5	
Nickel (Ni)	0.004	Sulfates (SO_4)	50.0	
Tin (Sn)	0.01	Total Dissolved Solids	217.0	
Vanadium (V)	*0.004	PH		7.6
Zinc (Zn)	*1.0	Color (S.U.)	10.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		51.0
		Turbidity (S.U.)	2.4	1.0

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	57
Suspended		Carbon Alcohol Extractables (CAE)	153
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DENVER, COLORADO
(pop. 493,887)
SOUTH MARSTON LAKE

Ownership PUBLIC Population Served 612 thousand

River Basin MISSOURI RIVER (Major) SOUTH PLATTE (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. + gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 21 mgd % Municipal Supply Furnished By Plant 10%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

February 15 - March 3, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.02	ABS	0.04	
Barium (Ba)	0.1	Arsenic (As)	0.0	
Bismuth (Bi)	*0.01	Boron (B)	0.04	
Cadmium (Cd)	*0.007	Calcium (Ca)	32.0	
Chromium (Cr)	*0.002	Chlorides (Cl)	38.0	
Cobalt (Co)	*0.005	Fluoride (F)	1.14	0.8
Copper (Cu)	0.002	Hardness	132.0	108.0
Iron (Fe)	0.009	Magnesium (Mg)	12.7	
Lead (Pb)	*0.001	Nitrates (NO_3)	0.1	
Manganese (Mn)	*0.009	Selenium (Se)	0.0	
Molybedenum (Mo)	0.009	Sodium (Na)	22.5	
Nickel (Ni)	0.005	Sulfates (SO_4)	50.0	
Tin (Sn)	0.02	Total Dissolved Solids	232.0	
Vanadium (V)	*0.005	PH		7.5
Zinc (Zn)	*1.0	Color (S.U.)	10.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		40.0
		Turbidity (S.U.)	3.0	1.3

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	57
Suspended		Carbon Alcohol Extractables (CAE)	116
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PUEBLO, COLORADO
(pop. 91,181)
NORTH SIDE PLANT

Ownership PUBLIC Population Served 55 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) UPPER ARKANSAS RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity 44 mgd % Municipal Supply Furnished By Plant 65%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

May 25 - June 9, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.03	ABS	0.03	
Barium (Ba)	0.06	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.1	
Cadmium (Cd)	*0.009	Calcium (Ca)	40.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	21.0	19.0
Cobalt (Co)	*0.006	Fluoride (F)	0.5	
Copper (Cu)	0.6	Hardness	144.0	341.0
Iron (Fe)	0.09	Magnesium (Mg)	11.0	31.0
Lead (Pb)	*0.02	Nitrates (NO_3)	2.2	
Manganese (Mn)	0.2	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.01	Sodium (Na)	12.0	
Nickel (Ni)	0.06	Sulfates (SO_4)	160.0	
Tin (Sn)	*0.006	Total Dissolved Solids	296.0	
Vanadium (V)	*0.006	PH		7.3
Zinc (Zn)	*2.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		52.0
		Turbidity (S.U.)	1.0	1.0

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	21
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PUEBLO, COLORADO
(pop. 91,181)
SOUTH SIDE PLANT

Ownership PUBLIC Population Served 28.5 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) UPPER ARKANSAS RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity 35 mgd % Municipal Supply Furnished By Plant 35%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 25 - June 9, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/1		mg/1	mg/1
Antimony (Sb)	*0.03	ABS	0.03	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.07	
Cadmium (Cd)	*0.008	Calcium (Ca)	38.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	19.0	
Cobalt (Co)	*0.005	Fluoride (F)	0.4	
Copper (Ca)	0.2	Hardness	144.0	271.0
Iron (Fe)	0.05	Magnesium (Mg)	12.1	
Lead (Pb)	*0.01	Nitrates (NO_3)	1.9	
Manganese (Mn)	0.1	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.01	Sodium (Na)	9.5	
Nickel (Ni)	*0.005	Sulfates (SO_4)	128.0	
Tin (Sn)	*0.005	Total Dissolved Solids	290.0	
Vanadium (V)	*0.005	PH		7.1
Zinc (Zn)	*1.0	Color (S.U.)	1.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		55.0
		Turbidity (S.U.)	3.0	1.7

Results By Radiochemical Analyses	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	35
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

HARTFORD, CONNECTICUT
(pop. 162,178)

Ownership PUBLIC Population Served 375 thousand

River Basin NORTHEAST (Major) CONNECTICUT (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. ≠ gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 55 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 26 - May 10, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.004
Barium (Ba)	0.002
Bismuth (Bi)	*0.002
Cadmium (Cd)	*0.001
Chromium (Cr)	*0.0004
Cobalt (Co)	*0.0008
Copper (Cu)	0.008
Iron (Fe)	0.02
Lead (Pb)	*0.002
Manganese (Mn)	0.002
Molybedenum (Mo)	*0.0008
Nickel (Ni)	*0.0008
Tin (Sn)	*0.0008
Vanadium (V)	*0.0008
Zinc (Zn)	*0.2
Beryllium (Be)	*0.00002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.04	
Calcium (Ca)	08.0	
Chlorides (Cl)	4.4	
Fluoride (F)	1.0	1.1
Hardness	0.4	23.0
Magnesium (Mg)	4.8	
Nitrates (NO_3)	0.2	
Selenium (Se)	*0.01	
Sodium (Na)	3.0	
Sulfates (SO_4)	000.0	
Total Dissolved Solids	65.0	
PH		
Color (S.U.)	1.0	5.0
Temperature °F (Raw Water)		
Turbidity (S.U.)	4.0	1.0

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*5.0
Suspended	*5.0
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	84
Carbon Alcohol Extractables (CAE)	135

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WILMINGTON, DELAWARE

(pop. 95,827)

BRANDYWINE FILTER PLANT

Ownership PUBLIC Population Served — thousand

River Basin NORTH ATLANTIC (Major) DELAWARE RIVER (Minor)

Source STREAM OR CREEK Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 18 mgd % Municipal Supply Furnished By Plant 50%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

November 7 - November 21, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	0.01
Barium (Ba)	0.03
Bismuth (Bi)	*0.007
Cadmium (Cd)	*0.004
Chromium (Cr)	*0.001
Cobalt (Co)	*0.003
Copper (Cu)	0.1
Iron (Fe)	0.09
Lead (Pb)	*0.007
Manganese (Mn)	0.09
Molybedenum (Mo)	0.009
Nickel (Ni)	0.01
Tin (Sn)	0.003
Vanadium (V)	*0.003
Zinc (Zn)	*0.7
Beryllium (Be)	*0.00007

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.17	
Arsenic (As)	*0.01	
Boron (B)	0.12	
Calcium (Ca)	16.0	
Chlorides (Cl)	30.0	
Fluoride (F)	1.29	
Hardness	76.0	
Magnesium (Mg)	7.8	
Nitrates (NO_3)	2.8	
Selenium (Se)	*0.01	
Sodium (Na)	12.0	
Sulfates (SO_4)	39.0	
Total Dissolved Solids	135.0	
PH		6.5
Color (S.U.)	0.0	1.0
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	7.2
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	146
Carbon Alcohol Extractables (CAE)	200

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WILMINGTON, DELAWARE
(pop. 95,827
PORTER FILTER PLANT

Ownership PUBLIC Population Served 136 thousand

River Basin NORTH ATLANTIC (Major) DELAWARE RIVER (Minor)

Source STREAM, CREEK, IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. gal

Treatment PURIFICATION & DISINFECTION

Design Capacity 24 mgd % Municipal Supply Furnished By Plant 50%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

February 13 - March 1, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	0.01
Bismuth (Bi)	*0.006
Cadmium (Cd)	*0.004
Chromium (Cr)	*0.001
Cobalt (Co)	*0.002
Copper (Cu)	0.004
Iron (Fe)	0.01
Lead (Pb)	*0.006
Manganese (Mn)	0.1
Molybedenum (Mo	0.004
Nickel (Ni)	0.005
Tin (Sn)	0.002
Vanadium (V)	*0.002
Zinc (Zn)	*0.6
Beryllium (Be)	*0.00006

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.13	
Arsenic (As)	0.006	
Boron (B)	0.04	
Calcium (Ca)	18.4	
Chlorides (Cl)	8.5	
Fluoride (F)	1.0	
Hardness	76.0	
Magnesium (Mg)	6.7	
Nitrates (NO_3)	2.0	
Selenium (Se)	*0.005	
Sodium (Na)	6.5	
Sulfates (SO_4)	74.5	
Total Dissolved Solids	135.0	
PH		8.0
Color (S.U.)	2.0	0.0
Temperature °F (Raw Water)		58.0
Turbidity (S.U.)	5.5	0.0

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	
Beta Activity	
Dissolved	*2.6
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	89
Carbon Alcohol Extractables (CAE)	115

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WASHINGTON, D.C.
(pop. 763,956)
DALECARLIA PLANT

Ownership PUBLIC Population Served 1,100 thousand

River Basin NORTH ATLANTIC (Major) POTOMAC RIVER BASIN (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. + gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 104 mgd % Municipal Supply Furnished By Plant 43%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

October 11 - October 26, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	0.02	ABS	0.06	
Barium (Ba)	0.02	Arsenic (As)	0.01	
Bismuth (Bi)	0.01	Boron (B)	0.09	
Cadmium (Cd)	0.006	Calcium (Ca)	39.0	37.2
Chromium (Cr)	0.002	Chlorides (Cl)		11.5
Cobalt (Co)	0.004	Fluoride (F)	1.2	0.96
Copper (Cu)	0.006	Hardness	132.0	119.0
Iron (Fe)	0.08	Magnesium (Mg)	8.3	6.3
Lead (Pb)	0.01	Nitrates (NO_3)	0.2	
Manganese (Mn)	0.008	Selenium (Se)	0.01	
Molybedenum (Mo)	0.004	Sodium (Na)	12.0	
Nickel (Ni)	0.01	Sulfates (SO_4)	42.0	
Tin (Sn)	0.004	Total Dissolved Solids	214.0	
Vanadium (V)	0.004	PH		7.8
Zinc (Zn)	*1.0	Color (S.U.)	*1.0	0.4
Beryllium	*0.0001	Temperature °F (Raw Water)		58.0
		Turbidity (S.U.)	0.0	0.39

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	104
Suspended		Carbon Alcohol Extractables (CAE)	229
Beta Activity			
Dissolved	7.5		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WASHINGTON, D.C.
(pop. 763,956)
McMILLAN PLANT

Ownership PUBLIC

Population Served 1,100 thousand

River Basin NORTH ATLANTIC (Major) POTOMAC RIVER BASIN (Minor)

Source IMPOUNDED RESERVOIR

Raw Water Capacity Range 100 ml.-1bil. gl.

Treatment PURIFICATION & DISINFECTION

Design Capacity 125 mgd

% Municipal Supply Furnished By Plant 57%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

October 11 - October 28, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	0.02
Barium (Ba)	0.02
Bismuth (Bi)	0.01
Cadmium (Cd)	0.006
Chromium (Cr)	0.002
Cobalt (Co)	0.004
Copper (Cu)	0.06
Iron (Fe)	0.006
Lead (Pb)	0.01
Manganese (Mn)	0.008
Molybedenum (Mo)	0.004
Nickel (Ni)	0.004
Tin (Sn)	0.004
Vanadium (V)	0.004
Zinc (Zn)	*1.0
Beryllium (Be)	0.0001

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.04	
Arsenic (As)	0.01	
Boron (B)	0.09	
Calcium (Ca)	37.0	
Chlorides (Cl)		11.8
Fluoride (F)	1.1	
Hardness	132.0	112.0
Magnesium (Mg)	9.7	5.9
Nitrates (NO_3)	0.3	
Selenium (Se)	0.01	
Sodium (Na)	12.0	
Sulfates (SO_4)	41.0	
Total Dissolved Solids	192.0	
PH		7.9
Color (S.U.)	*1.0	
Temperature °F (Raw Water)		58.0
Turbidity (S.U.)	0.0	0.03

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	6.1
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	96
Carbon Alcohol Extractables (CAE)	144

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

FORT LAUDERDALE, FLORIDA
(83,648)
DIXIE WATER PLANT

Ownership PUBLIC Population Served 110 thousand

River Basin SOUTHEAST (Major) FLORIDA EAST COASTAL AREA (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 14 mgd % Municipal Supply Furnished By Plant 44%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

April 27 - May 11, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.02	
Barium (Ba)	*0.003	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.007	Boron (B)	0.04	
Cadmium (Cd)	*0.004	Calcium (Ca)	26.0	
Chromium (Cr)	*0.001	Chlorides (Cl)		
Cobalt (Co)	*0.003	Fluoride (F)	0.4	
Copper (Cu)	0.005	Hardness	84.0	66.0
Iron (Fe)	0.03	Magnesium (Mg)	4.9	
Lead (Pb)	*0.007	Nitrates (NO_3)		
Manganese (Mn)	0.007	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.003	Sodium (Na)	9.5	
Nickel (Ni)	*0.003	Sulfates (SO_4)		
Tin (Sn)	*0.003	Total Dissolved Solids		
Vanadium (V)	*0.003	PH		9.8
Zinc (Zn)	*0.7	Color (S.U.)		5.0
Beryllium (Be)	*0.00007	Temperature °F (Raw Water)		
		Turbidity (S.U.)		0.1

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	61
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	136
Beta Activity			
Dissolved	5.4		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

FORT LAUDERDALE, FLORIDA
(pop. 83,648)
FIVEASH WATER PLANT

Ownership PUBLIC Population Served 110 thousand

River Basin SOUTHEAST (Major) FLORIDA EAST COASTAL AREA (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment PURIFICATION, DISINFECTION, SOFTENING

Design Capacity 16 mgd % Municipal Supply Furnished By Plant 56%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 27 - May 12, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	0.1
Bismuth (Bi)	*0.005
Cadmium (Cd)	*0.003
Chromium (Cr)	*0.003
Cobalt (Co)	*0.002
Copper (Cu)	0.0008
Iron (Fe)	0.03
Lead (Pb)	*0.005
Manganese (Mn)	*0.004
Molybedenum (Mo)	0.003
Nickel (Ni)	*0.002
Tin (Sn)	*0.002
Vanadium (V)	*0.002
Zinc (Zn)	*0.5
Beryllium (Be)	*0.00005

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.02	
Calcium (Ca)	21.0	
Chlorides (Cl)		
Fluoride (F)	0.2	
Hardness	72.0	55.0
Magnesium (Mg)	4.9	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	7.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		9.7
Color (S.U.)		2.0
Temperature °F (Raw Water)		
Turbidity (S.U.)		0.4

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	77
Carbon Alcohol Extractables (CAE)	91

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MIAMI, FLORIDA
(pop. 291,688)
ALEXANDER ORR, JR. WATER TREATMENT PLANT

Ownership PUBLIC Population Served 560 thousand

River Basin SOUTHEAST (Major) LOWER FLORIDA AREA (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment SOFTENING, DISINFECTION

Design Capacity 80 mgd % Municipal Supply Furnished By Plant 35%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

March 16 - March 31, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.005
Bismuth (Bi)	*0.008
Cadmium (Cd)	*0.005
Chromium (Cr)	*0.002
Cobalt (Co)	*0.003
Copper (Cu)	0.02
Iron (Fe)	0.08
Lead (Pb)	*0.008
Manganese (Mn)	*0.007
Molybedenum (Mo)	0.005
Nickel (Ni)	*0.003
Tin (Sn)	*0.003
Vanadium (V)	0.01
Zinc (Zn)	*0.8
Beryllium (Be)	*0.00008

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.15	
Arsenic (As)	0.0	
Boron (B)	0.03	
Calcium (Ca)	27.2	
Chlorides (Cl)		14.0
Fluoride (F)	0.9	0.9
Hardness	86.0	85.0
Magnesium (Mg)	6.8	
Nitrates (NO_3)		
Selenium (Se)	*0.005	
Sodium (Na)	96.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		8.2
Color (S.U.)		6.0
Temperature °F (Raw Water)		76.0
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	59
Carbon Alcohol Extractables (CAE)	129

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MIAMI, FLORIDA
(pop. 291,688)
HIALEAH WATER TREATMENT PLANT

Ownership PUBLIC Population Served 560 thousand

River Basin SOUTHEAST (Major) LOWER FLORIDA AREA (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range ______

Treatment DISINFECTION, SOFTENING

Design Capacity 60 mgd % Municipal Supply Furnished By Plant 65%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 16 - March 31, 1961

Results By Spectographic Analyses

	mg/1
Antimony (Sb)	*0.02
Barium (Ba)	0.004
Bismuth (Bi)	*0.009
Cadmium (Cd)	*0.005
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	*0.0005
Iron (Fe)	0.02
Lead (Pb)	*0.009
Manganese (Mn)	*0.007
Molybedenum (Mo	0.005
Nickel (Ni)	*0.004
Tin (Sn)	*0.004
Vanadium (V)	*0.004
Zinc (Zn)	*0.9
Beryllium (Be)	*0.00009

Results By Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	*0.01	
Arsenic (As)	*0.01	
Boron (B)	0.0	
Calcium (Ca)	31.2	
Chlorides (Cl)		41.0
Fluoride (F)	1.3	1.0
Hardness	96.0	80.0
Magnesium (Mg)	4.4	
Nitrates (NO_3)		
Selenium (Se)	*0.005	
Sodium (Na)	7.5	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		8.3
Color (S.U.)		7.0
Temperature °F (Raw Water)		76.0
Turbidity (S.U.)		

Results By Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	113
Carbon Alcohol Extractables (CAE)	237

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TAMPA, FLORIDA
(pop. 274,970)

Ownership PUBLIC Population Served 275 thousand

River Basin SOUTHEAST (Major) TAMPA BAY AREA (Minor)

Source RIVER Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 40 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

April 25 - May 9, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	*0.003
Bismuth (Bi)	*0.007
Cadmium (Cd)	*0.004
Chromium (Cr)	*0.001
Cobalt (Co)	*0.003
Copper (Cu)	0.001
Iron (Fe)	0.009
Lead (Pb)	*0.007
Manganese (Mn)	*0.006
Molybedenum (Mo)	*0.003
Nickel (Ni)	*0.003
Tin (Sn)	*0.003
Vanadium (V)	*0.003
Zinc (Zn)	*0.7
Beryllium (Be)	*0.00007

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.04	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	38.0	
Chlorides (Cl)		13.7
Fluoride (F)	0.4	
Hardness	116.0	105.0
Magnesium (Mg)	5.3	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	5.5	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		8.4
Color (S.U.)		5.0
Temperature °F (Raw Water)		73.0
Turbidity (S.U.)		0.1

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	43
Carbon Alcohol Extractables (CAE)	132

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ATLANTA, GEORGIA
(pop. 487,455)
CHATTAHOOCHEE WATER TREATMENT PLANT

Ownership PUBLIC Population Served 600 thousand

River Basin SOUTHEAST (Major) CHATTAHOOCHEE RIVER BASIN (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 20 mgd % Municipal Supply Furnished By Plant 18%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 15 - September 1, 1961

Results By Spectographic Analyses

	mg/1
Antimony (Sb)	
Barium (Ba)	
Bismuth (Bi)	
Cadmium (Cd)	
Chromium (Cr)	
Cobalt (Co)	
Copper (Cu)	
Iron (Fe)	
Lead (Pb)	
Manganese (Mn)	
Molybedenum (Mo)	
Nickel (Ni)	
Tin (Sn)	
Vanadium (V)	
Zinc (Zn)	
Beryllium (Be)	

Results By Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.04	
Arsenic (As)	*0.01	
Boron (B)	0.0	
Calcium (Ca)	8.8	
Chlorides (Cl)		
Fluoride (F)	0.1	
Hardness	28.0	15.0
Magnesium (Mg)	1.5	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	2.8	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		2.1
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		0.2

Results By Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	50
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ATLANTA, GEORGIA
(pop. 487,455)
HEMPHILL WATER TREATMENT PLANT

Ownership PUBLIC Population Served 600 thousand

River Basin SOUTHEAST (Major) CHATTANOOGA RIVER BASIN (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 72 mgd % Municipal Supply Furnished By Plant 82%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

August 15 - August 30, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.002	ABS	0.03	
Barium (Ba)	0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.001	Boron (B)	0.02	
Cadmium (Cd)	*0.0006	Calcium (Ca)	8.0	
Chromium (Cr)	0.0008	Chlorides (Cl)		4.0
Cobalt (Co)	*0.0004	Fluoride (F)	0.08	
Copper (Cu)	0.006	Hardness	28.0	19.0
Iron (Fe)	0.02	Magnesium (Mg)	1.9	
Lead (Pb)	0.004	Nitrates (NO_3)		
Manganese (Mn)	0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.0004	Sodium (Na)	2.8	
Nickel (Ni)	*0.0004	Sulfates (SO_4)		
Tin (Sn)	*0.0004	Total Dissolved Solids		
Vanadium (V)	*0.0004	PH		9.4
Zinc (Zn)	*0.1	Color (S.U.)		
Beryllium (Be)	*0.00001	Temperature °F (Raw Water)		53.0
		Turbidity (S.U.)		0.1

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	58
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

COLUMBUS, GEORGIA
(pop. 116,779)

Ownership PUBLIC   Population Served 150 thousand

River Basin SOUTHEAST (Major)   CHATTANOOGA RIVER BASIN (Minor)

Source RIVER, IMPOUNDED RESERVOIR   Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 36 mgd   % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

November 14 - November 28, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.005	ABS	0.08	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.002	Boron (B)	0.06	
Cadmium (Cd)	*0.001	Calcium (Ca)	10.0	
Chromium (Cr)	0.005	Chlorides (Cl)		
Cobalt (Co)	*0.0009	Fluoride (F)	0.22	
Copper (Cu)	0.05	Hardness	40.0	27.0
Iron (Fe)	0.01	Magnesium (Mg)	3.4	
Lead (Pb)	*0.002	Nitrates (NO_3)		
Manganese (Mn)	0.002	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.002	Sodium (Na)	12.0	
Nickel (Ni)	*0.0009	Sulfates (SO_4)		
Tin (Sn)	*0.0009	Total Dissolved Solids	47.0	
Vanadium (V)	0.0009	PH		8.1
Zinc (Zn)	*0.2	Color (S.U.)		
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		68.0
		Turbidity (S.U.)		0.0

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	89
Suspended		Carbon Alcohol Extractables (CAE)	188
Beta Activity			
Dissolved	4.5		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SAVANNAH, GEORGIA
(pop. 149,245)
INDUSTRIAL AND DOMESTIC WATER SUPPLY

Ownership PUBLIC Population Served 140 thousand

River Basin SOUTHEAST (Major) SAVANNAH RIVER BASIN (Minor)

Source STREAM OR CREEK Raw Water Capacity Range

Treatment PURIFICATION & DISINFECTION

Design Capacity 50 mgd % Municipal Supply Furnished By Plant 62%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

November 28 - December 14, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	0.008
Barium (Ba)	0.02
Bismuth (Bi)	0.004
Cadmium (Cd)	0.002
Chromium (Cr)	0.0008
Cobalt (Co)	0.002
Copper (Cu)	0.002
Iron (Fe)	0.008
Lead (Pb)	0.004
Manganese (Mn)	0.02
Molybedenum (Mo)	0.002
Nickel (Ni)	0.002
Tin (Sn)	0.002
Vanadium (V)	0.002
Zinc (Zn)	0.4
Beryllium (Be)	0.00004

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	0.01	
Boron (B)	0.15	
Calcium (Ca)	12.0	
Chlorides (Cl)		6.0
Fluoride (F)	0.1	
Hardness	52.0	31.0
Magnesium (Mg)	4.9	
Nitrates (NO_3)		
Selenium (Se)	0.01	
Sodium (Na)	5.0	
Sulfates (SO_4)		
Total Dissolved Solids	81.0	
PH		8.1
Color (S.U.)		
Temperature °F (Raw Water)		57.0
Turbidity (S.U.)		0.7

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	13.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	73
Carbon Alcohol Extractables (CAE)	105

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

HILO, HAWAII
(pop. 25,966)

Ownership PUBLIC Population Served 25 thousand

River Basin HAWAII (Major) WAILUKU RIVER (Minor)

Source STREAM OR CREEK Raw Water Capacity Range 0-1 mg.

Treatment DISINFECTION

Design Capacity 7 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 19 - May 4, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.001	ABS	0.05	
Barium (Ba)	0.001	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.0007	Boron (B)	0.04	
Cadmium (Cd)	*0.0004	Calcium (Ca)	4.0	
Chromium (Cr)	0.0006	Chlorides (Cl)	6.0	
Cobalt (Co)	*0.0003	Fluoride (F)	0.05	
Copper (Cu)	0.01	Hardness	20.0	
Iron (Fe)	0.6	Magnesium (Mg)	2.4	
Lead (Pb)	0.003	Nitrates (NO_3)	0.0	
Manganese (Mn)	0.14	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.001	Sodium (Na)	2.5	
Nickel (Ni)	0.003	Sulfates (SO_4)	8.2	
Tin (Sn)	*0.0003	Total Dissolved Solids	48.0	
Vanadium (V)	0.007	PH		
Zinc (Zn)	0.2	Color (S.U.)	20.0	
Beryllium (Be)	*0.000007	Temperature °F (Raw Water)		
		Turbidity (S.U.)	10.0	

Results By Radiochemical Analyses	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	53
Carbon Alcohol Extractables (CAE)	71

(1) NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TWIN FALLS, IDAHO
(pop. 20,126)
CITY TREATMENT PLANT

Ownership PUBLIC Population Served 21 thousand

River Basin COLUMBIA RIVER (Major) UPPER SNAKE RIVER (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 10 mgd % Municipal Supply Furnished By Plant 91%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

May 2 - May 17, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.03	ABS	0.01	
Barium (Ba)	1.0	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.14	
Cadmium (Cd)	*0.01	Calcium (Ca)	52.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	33.0	
Cobalt (Co)	*0.007	Fluoride (F)	1.0	
Copper (Cu)	0.01	Hardness	228.0	
Iron (Fe)	0.1	Magnesium (Mg)	24.0	
Lead (Pb)	*0.02	Nitrates (NO_3)	0.0	
Manganese (Mn)	*0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.007	Sodium (Na)	22.0	
Nickel (Ni)	0.007	Sulfates (SO_4)	79.0	
Tin (Sn)	*0.007	Total Dissolved Solids	380.0	
Vanadium (V)	*0.007	PH		
Zinc (Zn)	*2.0	Color (S.U.)	5.0	
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		50.0
		Turbidity (S.U.)	1.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	28
Suspended		Carbon Alcohol Extractables (CAE)	123
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TWIN FALLS, IDAHO
(pop. 20,126)
JOHNSTON WELL

Ownership PUBLIC   Population Served 21 thousand

River Basin COLUMBIA RIVER (Major)   UPPER SNAKE RIVER (Minor)

Source GROUND WATER SUPPLY   Raw Water Capacity Range ____

Treatment None - well

Design Capacity 85 mgd   % Municipal Supply Furnished By Plant 9

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

May 2 - May 29, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.05	ABS	0.01	
Barium (Ba)	*0.01	Arsenic (As)	0.02	
Bismuth (Bi)	*0.03	Boron (B)	0.3	
Cadmium (Cd)	*0.02	Calcium (Ca)	50.0	
Chromium (Cr)	*0.005	Chlorides (Cl)	50.0	
Cobalt (Co)	*0.01	Fluoride (F)	0.9	
Copper (Cu)	*0.002	Hardness	344.0	
Iron (Fe)	0.02	Magnesium (Mg)	52.0	
Lead (Pb)	*0.03	Nitrates (NO_3)	2.0	
Manganese (Mn)	*0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.01	Sodium (Na)	64.0	
Nickel (Ni)	*0.01	Sulfates (SO_4)	107.0	
Tin (Sn)	*0.01	Total Dissolved Solids	600.0	
Vanadium (V)	0.03	PH		
Zinc (Zn)	*3.0	Color (S.U.)	5.0	
Beryllium (Be)	*0.0003	Temperature °F (Raw Water)		
		Turbidity (S.U.)	1.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	45
Suspended		Carbon Alcohol Extractables (CAE)	146
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CAIRO, ILLINOIS
(pop. 9,348)

Ownership PRIVATE Population Served 10 thousand

River Basin OHIO RIVER (Major) MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 4 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

February 16 - March 13, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/1		mg/1	mg/1
Antimony (Sb)	*0.02	ABS	0.10	
Barium (Ba)	0.1	Arsenic (As)	0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.02	
Cadmium (Cd)	*0.007	Calcium (Ca)	36.8	
Chromium (Cr)	*0.002	Chlorides (Cl)	18.0	
Cobalt (Co)	*0.004	Fluoride (F)	0.4	
Copper (Cu)	0.08	Hardness	136.0	134.0
Iron (Fe)	0.02	Magnesium (Mg)	10.8	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.8	
Manganese (Mn)	0.04	Selenium (Se)	*0.005	
Molybedenum (Mo)	*0.004	Sodium (Na)	13.5	
Nickel (Ni)	0.007	Sulfates (SO_4)	73.0	
Tin (Sn)	*0.004	Total Dissolved Solids	210.0	
Vanadium (V)	*0.004	PH		7.2
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature $^{\circ}$F (Raw Water)		59.0
		Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved	12.0	Carbon Chloroform Extractables (CCE)	137
Suspended		Carbon Alcohol Extractables (CAE)	216
Beta Activity			
Dissolved	2.6		
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CHESTER, ILLINOIS
(pop. 4,460)

Ownership PUBLIC Population Served 5.4 thousand

River Basin UPPER MISSISSIPPI (Major) MISSISSIPPI-CAPE GIRARDEAU AREA (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 2 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

February 15 - March 2, 1961

Results By Spectographic Analyses | Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.20	
Barium (Ba)	0.09	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.04	
Cadmium (Cd)	*0.007	Calcium (Ca)	39.2	
Chromium (Cr)	*0.002	Chlorides (Cl)	39.0	
Cobalt (Co)	*0.005	Fluoride (F)	1.2	
Copper (Cu)	0.007	Hardness	144.0	112.0
Iron (Fe)	0.1	Magnesium (Mg)	11.2	
Lead (Pb)	*0.01	Nitrates (NO_3)	1.8	
Manganese (Mn)	*0.009	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.009	Sodium (Na)	21.0	
Nickel (Ni)	*0.005	Sulfates (SO_4)	77.0	
Tin (Sn)	0.02	Total Dissolved Solids	230.0	
Vanadium (V)	*0.005	PH		8.9
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature $^{\circ}$F (Raw Water)		57.0
		Turbidity (S.U.)		

Results By Radiochemical Analyses | Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	108
Suspended		Carbon Alcohol Extractables (CAE)	147
Beta Activity			
Dissolved	3.6		
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DECATUR, ILLINOIS
(pop. 78,004)

Ownership PUBLIC   Population Served 78 thousand

River Basin UPPER MISSISSIPPI (Major)   ILLINOIS (Minor)

Source LAKE   Raw Water Capacity Range 1 bil.+ gal.

Treatment PURIFICATION, DISINFECTION, & SOFTENING

Design Capacity 24 mgd   % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 11 - July 26, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	
Barium (Ba)	
Bismuth (Bi)	
Cadmium (Cd)	
Chromium (Cr)	
Cobalt (Co)	
Copper (Cu)	
Iron (Fe)	
Lead (Pb)	
Manganese (Mn)	
Molybedenum (Mo)	
Nickel (Ni)	
Tin (Sn)	
Vanadium (V)	
Zinc (Zn)	
Beryllium (Be)	

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS		
Arsenic (As)		
Boron (B)		
Calcium (Ca)		
Chlorides (Cl)	10.0	
Fluoride (F)		
Hardness		127.0
Magnesium (Mg)		81.0
Nitrates (NO_3)	2.8	
Selenium (Se)		
Sodium (Na)		
Sulfates (SO_4)	42.0	
Total Dissolved Solids	140.0	
PH		9.5
Color (S.U.)		
Temperature °F (Raw Water)		54.0
Turbidity (S.U.)	0.0	0.4

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	62
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

EAST ST. LOUIS, ILLINOIS
(pop. 81,712)

Ownership PRIVATE Population Served 250 thousand

River Basin UPPER MISSISSIPPI (Major) MISSISSIPPI - ST. LOUIS AREA (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 45 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

February 14 - February 28, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.03
Barium (Ba)	0.06
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.009
Chromium (Cr)	*0.003
Cobalt (Co)	*0.006
Copper (Cu)	0.02
Iron (Fe)	0.06
Lead (Pb)	0.03
Manganese (Mn)	0.1
Molybedenum (Mo)	0.01
Nickel (Ni)	0.02
Tin (Sn)	0.006
Vanadium (V)	*0.006
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.35	
Arsenic (As)	*0.01	
Boron (B)	0.07	
Calcium (Ca)	60.0	54.0
Chlorides (Cl)	23.0	11.0
Fluoride (F)	0.3	
Hardness	236.0	223.0
Magnesium (Mg)	20.9	20.0
Nitrates (NO_3)	0.5	
Selenium (Se)	*0.005	
Sodium (Na)	11.5	
Sulfates (SO_4)	96.0	
Total Dissolved Solids	210.0	
PH		7.3
Color (S.U.)		
Temperature °F (Raw Water)		57.0
Turbidity (S.U.)	2.0	0.4

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	
Beta Activity	
Dissolved	3.3
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	88
Carbon Alcohol Extractables (CAE)	188

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ROCK ISLAND, ILLINOIS
(pop. 51,863)

Ownership PUBLIC Population Served 52 thousand

River Basin UPPER MISSISSIPPI (Major) MISS. - WAPSIPINICON (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 10 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 12 - July 26, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.03	ABS	0.06	
Barium (Ba)	0.05	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.08	
Cadmium (Cd)	*0.008	Calcium (Ca)	41.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	12.0	
Cobalt (Co)	*0.005	Fluoride (F)	0.2	
Copper (Ca)	0.002	Hardness	172.0	171.0
Iron (Fe)	0.02	Magnesium (Mg)	17.0	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.0	
Manganese (Mn)	*0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.005	Sodium (Na)	5.5	
Nickel (Ni)	*0.005	Sulfates (SO_4)	8.0	
Tin (Sn)	*0.005	Total Dissolved Solids	180.0	
Vanadium (V)	*0.005	PH		7.3
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)	2.0	0.6

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	136
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	3.6		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ELKHART, INDIANA
(pop. 40,274)

Ownership PUBLIC Population Served 40 thousand

River Basin WESTERN GREAT LAKES (Major) ST. JOSEPH RIVER (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 12 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

June 16 - June 30, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.03	ABS	0.02	
Barium (Ba)	0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.06	
Cadmium (Cd)	*0.01	Calcium (Ca)	53.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	6.0	
Cobalt (Co)	*0.007	Fluoride (F)	0.95	0.9
Copper (Cu)	0.02	Hardness	224.0	218.0
Iron (Fe)	0.1	Magnesium (Mg)	22.0	
Lead (Pb)	*0.02	Nitrates (NO_3)	0.2	
Manganese (Mn)	0.2	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.007	Sodium (Na)	3.6	
Nickel (Ni)	*0.007	Sulfates (SO_4)	16.0	
Tin (Sn)	*0.007	Total Dissolved Solids	270.0	
Vanadium (V)	*0.007	PH		7.5
Zinc (Zn)	*2.0	Color (S.U.)	5.0	
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		53.0
		Turbidity (S.U.)	1.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	34
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

EVANSVILLE, INDIANA
(pop. 141,543)

Ownership PUBLIC Population Served 150 thousand

River Basin OHIO RIVER (Major) MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range 100m.-1bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 36 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

June 15 - June 30, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.02	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.06	
Cadmium (Cd)	*0.006	Calcium (Ca)	42.0	
Chromium (Cr)	*0.002	Chlorides (Cl)	16.0	32.0
Cobalt (Co)	*0.004	Fluoride (F)	0.15	0.2
Copper (Cu)	0.0006	Hardness	144.0	159.0
Iron (Fe)	0.008	Magnesium (Mg)	9.2	
Lead (Pb)	*0.01	Nitrates (NO_3)	1.0	
Manganese (Mn)	*0.008	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.004	Sodium (Na)	7.5	
Nickel (Ni)	*0.004	Sulfates (SO_4)	55.0	
Tin (Sn)	*0.004	Total Dissolved Solids	228.0	
Vanadium (V)	*0.004	PH		8.1
Zinc (Zn)	*1.0	Color (S.U.)	*5.0	
Beryllium (Be)	*0.0001	Temperature $^{\circ}$F (Raw Water)		66.0
		Turbidity (S.U.)	1.0	0.3

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	92
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

INDIANAPOLIS, INDIANA
(pop. 476,258)
FALL CREEK

Ownership PRIVATE Population Served 515 thousand

River Basin OHIO RIVER (Major) WEST FORK WHITE RIVER (Minor)

Source STREAM, IMPOUNDED RESERVOIR, GROUND WATER SUPPLY. Raw Water Capacity Range 1 bil. ≠ gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 32 mgd % Municipal Supply Furnished By Plant 39%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 17 - February 1, 1961

Results By Spectographic Analvses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.04	ABS	0.23	
Barium (Ba)	0.03	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.07	
Cadmium (Cd)	*0.01	Calcium (Ca)	54.4	
Chromium (Cr)	*0.004	Chlorides (Cl)	20.0	16.0
Cobalt (Co)	*0.007	Fluoride (F)	1.0	1.0
Copper (Cu)	0.02	Hardness	288.0	241.0
Iron (Fe)	0.007	Magnesium (Mg)	36.9	
Lead (Pb)	*0.02	Nitrates (NO_3)	0.2	
Manganese (Mn)	*0.01	Selenium (Se)	0.001	
Molybedenum (Mo)	0.01	Sodium (Na)	10.5	
Nickel (Ni)	*0.007	Sulfates (SO_4)	63.0	
Tin (Sn)	*0.007	Total Dissolved Solids	372.0	
Vanadium (V)	*0.007	PH		7.3
Zinc (Zn)	*2.0	Color (S.U.)	*5.0	2.0
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.1	0.2

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	66
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	281
Beta Activity			
Dissolved	*2.6		
Suspended	*2.6		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

INDIANAPOLIS, INDIANA
(pop. 476,258)
WHITE RIVER

Ownership PRIVATE Population Served 515 thousand

River Basin OHIO RIVER (Major) WEST FORK WHITE RIVER (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 84 mgd % Municipal Supply Furnished By Plant 61%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

January 17 - February 1, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.05
Barium (Ba)	0.009
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.005
Cobalt (Co)	*0.009
Copper (Cu)	0.03
Iron (Fe)	0.01
Lead (Pb)	*0.02
Manganese (Mn)	*0.02
Molybedenum (Mo)	0.03
Nickel (Ni)	0.3
Tin (Sn)	*0.009
Vanadium (V)	*0.009
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.64	
Arsenic (As)	*0.01	
Boron (B)	0.2	
Calcium (Ca)	85.6	
Chlorides (Cl)	44.0	27.0
Fluoride (F)	1.1	1.1
Hardness	380.0	314.0
Magnesium (Mg)	40.3	
Nitrates (NO_3)	1.8	
Selenium (Se)	*0.001	
Sodium (Na)	28.5	
Sulfates (SO_4)	98.0	
Total Dissolved Solids	498.0	
PH		7.3
Color (S.U.)	*5.0	3.0
Temperature $^{\circ}$F (Raw Water)		
Turbidity (S.U.)	0.2	0.3

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	3.2
Suspended	*2.6

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	113
Carbon Alcohol Extractables (CAE)	346

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MUNCIE, INDIANA
(pop. 68,603)

Ownership PRIVATE Population Served 75 thousand

River Basin OHIO RIVER (Major) EAST FORK WHITE RIVER (Minor)

Source RIVER, STREAM, IMPOUNDED RESERVOIR, GR. WATER SUPPLY Raw Water Capacity Range 1 bil. ≠ gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 13.9mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 18 - February 1, 1961

Results By
Spectographic Analvses

	mg/l
Antimony (Sb)	*0.05
Barium (Ba)	0.2
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.005
Cobalt (Co)	*0.009
Copper (Cu)	0.01
Iron (Fe)	0.09
Lead (Pb)	*0.02
Manganese (Mn)	0.1
Molybedenum (Mo)	0.02
Nickel (Ni)	0.009
Tin (Sn)	*0.009
Vanadium (V)	*0.009
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.3	
Arsenic (As)	*0.01	
Boron (B)	0.1	
Calcium (Ca)	102.0	
Chlorides (Cl)	28.0	22.0
Fluoride (F)	1.1	1.0
Hardness	396.0	336.0
Magnesium (Mg)	34.5	
Nitrates (NO_3)	1.1	
Selenium (Se)	*0.001	
Sodium (Na)	19.5	
Sulfates (SO_4)	85.0	
Total Dissolved Solids	508.0	
PH		7.3
Color (S.U.)	*5.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.3	0.7

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*2.6
Suspended	*2.6

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractabies (CCE)	38
Carbon Alcohol Extractables (CAE)	168

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WASHINGTON, INDIANA
(pop. 10,846)

Ownership PUBLIC Population Served 13 thousand

River Basin OHIO (Major) WEST FORK WHITE RIVER (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment PURIFICATION, DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 2 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

June 13 - June 21, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.03
Barium (Ba)	0.03
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.003
Cobalt (Co)	*0.007
Copper (Cu)	0.007
Iron (Fe)	0.02
Lead (Pb)	*0.02
Manganese (Mn)	*0.01
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.007
Tin (Sn)	*0.007
Vanadium (V)	*0.007
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.08	
Arsenic (As)	*0.01	
Boron (B)	0.07	
Calcium (Ca)	78.0	
Chlorides (Cl)	10.0	
Fluoride (F)	0.08	
Hardness	300.0	298.0
Magnesium (Mg)	26.0	
Nitrates (NO_3)	0.5	
Selenium (Se)	*0.01	
Sodium (Na)	5.5	
Sulfates (SO_4)	42.0	
Total Dissolved Solids	244.0	
PH		7.3
Color (S.U.)	*5.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.1	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	24
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BURLINGTON, IOWA
(pop. 32,430)

Ownership PUBLIC Population Served 35 thousand

River Basin UPPER MISSISSIPPI (Major) MISSISSIPPI-DES MOINES-SKUNK (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 12.5mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

October 24 - November 7, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.05
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	*0.002
Cobalt (Co)	*0.005
Copper (Cu)	0.005
Iron (Fe)	0.05
Lead (Pb)	*0.01
Manganese (Mn)	0.02
Molybedenum (Mo)	*0.005
Nickel (Ni)	0.007
Tin (Sn)	*0.005
Vanadium (V)	*0.005
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.07	
Arsenic (As)	*0.01	
Boron (B)	0.11	
Calcium (Ca)	48.0	
Chlorides (Cl)		
Fluoride (F)	0.31	
Hardness	192.0	
Magnesium (Mg)	17.0	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	11.0	
Sulfates (SO_4)		
Total Dissolved Solids	249.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	45
Carbon Alcohol Extractables (CAE)	203

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DES MOINES, IOWA
(pop. 208,982)

Ownership PUBLIC Population Served 233.7 thousand

River Basin UPPER MISSISSIPPI (Major) MISSISSIPPI-DES MOINES-SKUNK (Minor)

Source RIVER, INFILTRATION GALLERY Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 96 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

November 1 - November 17, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	*0.004
Bismuth (Bi)	*0.009
Cadmium (Cd)	*0.005
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	*0.0005
Iron (Fe)	0.007
Lead (Pb)	*0.009
Manganese (Mn)	*0.007
Molybedenum (Mo)	0.009
Nickel (Ni)	*0.004
Tin (Sn)	*0.004
Vanadium (V)	*0.004
Zinc (Zn)	*0.9
Beryllium (Be)	*0.00009

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.04	
Arsenic (As)	1.01	
Boron (B)	0.06	
Calcium (Ca)	19.0	
Chlorides (Cl)		
Fluoride (F)	1.2	
Hardness	92.0	
Magnesium (Mg)	11.0	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	27.0	
Sulfates (SO_4)		
Total Dissolved Solids	177.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	11.4
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	22
Carbon Alcohol Extractables (CAE)	96

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ASHLAND, KENTUCKY
(pop. 31,283)

Ownership PUBLIC Population Served 50 thousand

River Basin OHIO RIVER (Major) MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 8 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

JANUARY 26 - FEBRUARY 9, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.02	ABS	0.07	
Barium (Ba)	0.01	Arsenic (As)	0.0	
Bismuth (Bi)	*0.01	Boron (B)	0.04	
Cadmium (Cd)	*0.006	Calcium (Ca)	32.0	
Chromium (Cr)	*0.002	Chlorides (Cl)	25.3	
Cobalt (Co)	*0.004	Fluoride (F)	1.0	
Copper (Cu)	0.008	Hardness	120.0	140.0
Iron (Fe)	0.04	Magnesium (Mg)	9.7	
Lead (Pb)	*0.01	Nitrates (NO_3)	1.1	
Manganese (Mn)	*0.008	Selenium (Se)	*0.001	
Molybedenum (Mo)	*0.004	Sodium (Na)	15.0	
Nickel (Ni)	*0.004	Sulfates (SO_4)	90.0	
Tin (Sn)	*0.004	Total Dissolved Solids	260.0	
Vanadium (V)	0.008	PH		8.0
Zinc (Zn)	*1.0	Color (S.U.)	0.0	5.0
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		60.0
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	164
Suspended		Carbon Alcohol Extractables (CAE)	269
Beta Activity			
Dissolved	*2.6		
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LEXINGTON, KENTUCKY
(pop. 62,810)
KENTUCKY RIVER STATION

Ownership PRIVATE Population Served ______ thousand

River Basin OHIO (Major) KENTUCKY (Minor)

Source RIVER Raw Water Capacity Range 100 mil.-1bil.gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 8 mgd % Municipal Supply Furnished By Plant 37%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	
Barium (Ba)	
Bismuth (Bi)	
Cadmium (Cd)	
Chromium (Cr)	
Cobalt (Co)	
Copper (Cu)	
Iron (Fe)	
Lead (Pb)	
Manganese (Mn)	
Molybedenum (Mo)	
Nickel (Ni)	
Tin (Sn)	
Vanadium (V)	
Zinc (Zn)	
Beryllium (Be)	

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS		
Arsenic (As)		
Boron (B)		
Calcium (Ca)		
Chlorides (Cl)		
Fluoride (F)		0.7
Hardness		
Magnesium (Mg)		
Nitrates (NO_3)		
Selenium (Se)		
Sodium (Na)		
Sulfates (SO_4)		
Total Dissolved Solids		
PH		6.3
Color (S.U.)		
Temperature °F (Raw Water)		51.0
Turbidity (S.U.)		0.2

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LEXINGTON, KENTUCKY
(pop. 62,810)
MAIN FILTRATION PLANT

Ownership PRIVATE   Population Served 125 thousand

River Basin OHIO (Major)   KENTUCKY (Minor)

Source IMPOUNDED RESERVOIR   Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 16 mgd   % Municipal Supply Furnished By Plant 63%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 23 - February 7, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.02
Bismuth (Bi)	0.01
Cadmium (Cd)	*0.006
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	0.2
Iron (Fe)	0.01
Lead (Pb)	*0.01
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.004
Nickel (Ni)	*0.004
Tin (Sn)	*0.004
Vanadium (V)	*0.004
Zinc (Zn)	*1.0
Beryllium (Be)	0.0001

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.05	
Arsenic (As)	*0.01	
Boron (B)	0.04	
Calcium (Ca)	44.0	
Chlorides (Cl)	11.5	
Fluoride (F)	1.01	1.0
Hardness	1.76	
Magnesium (Mg)	9.2	
Nitrates (NO_3)	0.6	
Selenium (Se)	*0.005	
Sodium (Na)	4.6	
Sulfates (SO_4)	52.0	
Total Dissolved Solids	224.0	
PH		7.7
Color (S.U.)	0.0	
Temperature °F (Raw Water)		60.0
Turbidity (S.U.)	0.0	0.2

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	
Beta Activity	
Dissolved	*2.6
Suspended	

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	73
Carbon Alcohol Extractables (CAE)	147

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LOUISVILLE, KENTUCKY
(pop. 390,639)

Ownership PUBLIC Population Served 550 thousand

River Basin OHIO (Major) MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION, & SOFTENING

Design Capacity 160 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

June 14 - June 28, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	
Barium (Ba)	
Bismuth (Bi)	
Cadmium (Cd)	
Chromium (Cr)	
Cobalt (Co)	
Copper (Cu)	
Iron (Fe)	
Lead (Pb)	
Manganese (Mn)	
Molybedenum (Mo)	
Nickel (Ni)	
Tin (Sn)	
Vanadium (V)	
Zinc (Zn)	
Beryllium (Be)	

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS		
Arsenic (As)		
Boron (B)		
Calcium (Ca)		35.0
Chlorides (Cl)	17.0	39.0
Fluoride (F)		1.0
Hardness		111.0
Magnesium (Mg)		7.0
Nitrates (NO_3)	1.8	
Selenium (Se)		
Sodium (Na)		
Sulfates (SO_4)	52.5	
Total Dissolved Solids	152.0	
PH		6.6
Color (S.U.)	0.0	
Temperature °F (Raw Water)		60.0
Turbidity (S.U.)	4.0	0.0

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	3.2
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	97
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PADUCAH, KENTUCKY
(pop. 34,479)

Ownership PUBLIC　　Population Served 40 thousand

River Basin OHIO (Major)　　OHIO MAIN STEM (Minor)

Source RIVER　　Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 9 mgd　　% Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

November 21 - December 1, 1960

Results By Spectographic Analyses　　Results By Chemical And Physical Analyses(1)

	mg/1		mg/1	mg/1
Antimony (Sb)	*0.01	ABS	0.05	
Barium (Ba)	0.05	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.005	Boron (B)	0.07	
Cadmium (Cd)	*0.003	Calcium (Ca)	33.6	
Chromium (Cr)	*0.001	Chlorides (Cl)	18.5	
Cobalt (Co)	*0.002	Fluoride (F)	0.1	
Copper (Cu)	0.003	Hardness	132.0	75.0
Iron (Fe)	0.04	Magnesium (Mg)	11.7	
Lead (Pb)	0.009	Nitrates (NO_3)	0.1	
Manganese (Mn)	*0.004	Selenium (Se)	0.002	
Molybedenum (Mo)	0.004	Sodium (Na)	6.5	
Nickel (Ni)	0.003	Sulfates (SO_4)	18.0	
Tin (Sn)	*0.002	Total Dissolved Solids	190.0	
Vanadium (V)	*0.002	PH		75.0
Zinc (Zn)	*0.5	Color (S.U.)	0.0	
Beryllium (Be)	*0.00005	Temperature °F (Raw Water)		62.0
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses　　Results By Carbon Adsorption Method (CAM)

	uuc/1		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	29
Suspended		Carbon Alcohol Extractables (CAE)	136
Beta Activity			
Dissolved	6.8		
Suspended	*1.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ALEXANDRIA, LOUISIANA
(pop. 40,279)

Ownership PUBLIC   Population Served 50 thousand

River Basin SOUTHWEST- LOWER MISSISSIPPI (Major)   LOWER RED RIVER BASIN (Minor)

Source GROUND WATER SUPPLY   Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 26 mgd   % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 8 - August 21, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.03
Barium (Ba)	0.03
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.003
Cobalt (Co)	*0.007
Copper (Cu)	0.001
Iron (Fe)	0.1
Lead (Pb)	*0.02
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.007
Nickel (Ni)	*0.007
Tin (Sn)	*0.007
Vanadium (V)	*0.007
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.6	
Calcium (Ca)	4.0	
Chlorides (Cl)	31.0	
Fluoride (F)	1.2	
Hardness	24.0	
Magnesium (Mg)	3.9	
Nitrates (NO_3)	0.1	
Selenium (Se)	*0.01	
Sodium (Na)	120.0	
Sulfates (SO_4)	0.0	
Total Dissolved Solids	375.0	
PH		
Color (S.U.)	10.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	2.0	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	45
Carbon Alcohol Extractables (CAE)	85

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BATON ROUGE, LOUISIANA
(pop. 152,419)

Ownership PRIVATE Population Served 200 thousand

River Basin SOUTHWEST-LOWER MISSISSIPPI (Major) LOWER MISS. RIVER BASIN (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 35 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 9 - August 31, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.02	
Barium (Ba)	*0.004	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.06	
Cadmium (Cd)	*0.006	Calcium (Ca)	1.6	
Chromium (Cr)	*0.002	Chlorides (Cl)	7.5	
Cobalt (Co)	*0.004	Fluoride (F)	0.2	
Copper (Cu)	0.002	Hardness	8.0	
Iron (Fe)	0.008	Magnesium (Mg)	1.0	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.0	
Manganese (Mn)	0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.004	Sodium (Na)	74.0	
Nickel (Ni)	*0.004	Sulfates (SO_4)	12.2	
Tin (Sn)	*0.004	Total Dissolved Solids	215.0	
Vanadium (V)	*0.004	PH		
Zinc (Zn)	*1.0	Color (S.U.)	15.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)	1.0	

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	97
Suspended		Carbon Alcohol Extractables (CAE)	22
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NEW ORLEANS, LOUISIANA
(pop. 627,525)

Ownership PUBLIC Population Served 600 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) LOWER MISS. RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 232 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 10 - August 24, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.04	
Barium (Ba)	0.04	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.007	Boron (B)	0.03	
Cadmium (Cd)	*0.004	Calcium (Ca)	23.0	24.0
Chromium (Cr)	*0.001	Chlorides (Cl)	28.2	36.0
Cobalt (Co)	*0.003	Fluoride (F)	0.4	
Copper (Cu)	0.007	Hardness	84.0	92.0
Iron (Fe)	0.03	Magnesium (Mg)	6.3	7.0
Lead (Pb)	*0.007	Nitrates (NO$_3$)	0.3	
Manganese (Mn)	*0.005	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.004	Sodium (Na)	14.0	
Nickel (Ni)	*0.003	Sulfates (SO$_4$)	46.5	
Tin (Sn)	*0.003	Total Dissolved Solids	179.0	10.0
Vanadium (V)	*0.003	PH		
Zinc (Zn)	*0.7	Color (S.U.)	10.0	
Beryllium (Be)	*0.00007	Temperature °F (Raw Water)		66.0
		Turbidity (S.U.)	3.0	0.3

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	53
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	3.9		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SHREVEPORT, LOUISIANA
(pop. 164,372)
CROSS LAKE WATER PLANT

Ownership PUBLIC Population Served 175 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) LOWER RED RIVER BASIN (Minor)

Source LAKE Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity 40 mgd % Municipal Supply Furnished By Plant 50

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 7 - August 25, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.04	
Barium (Ba)	0.04	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.007	Boron (B)	0.02	
Cadmium (Cd)	*0.004	Calcium (Ca)	20.0	
Chromium (Cr)	*0.001	Chlorides (Cl)	61.1	53.0
Cobalt (Co)	*0.003	Fluoride (F)	0.1	
Copper (Cu)	*0.0004	Hardness	80.0	60.0
Iron (Fe)	0.04	Magnesium (Mg)	7.3	
Lead (Pb)	*0.007	Nitrates (NO_3)	0.0	
Manganese (Mn)	0.1	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.003	Sodium (Na)	22.0	
Nickel (Ni)	*0.003	Sulfates (SO_4)	33.4	
Tin (Sn)	0.003	Total Dissolved Solids	171.0	
Vanadium (V)	*0.003	PH		8.4
Zinc (Zn)	*0.7	Color (S.U.)	10.0	5.0
Beryllium (Be)	*0.00007	Temperature °F (Raw Water)		64.0
		Turbidity (S.U.)	1.0	0.7

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	123
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	4.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SHREVEPORT, LOUISIANA
(pop. 164,372)
MCNEILL STREET PLANT

Ownership PUBLIC Population Served 175 thousand

River Basin SOUTHWEST-LOWER MISSISSIPPI (Major) LOWER RED RIVER BASIN (Minor)

Source LAKE Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity mgd % Municipal Supply Furnished By Plant 50

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

August 7 - August 25, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.08	
Barium (Ba)	0.08	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.007	Boron (B)	0.04	
Cadmium (Cd)	*0.004	Calcium (Ca)	18.0	
Chromium (Cr)	*0.001	Chlorides (Cl)	52.6	58.0
Cobalt (Co)	*0.003	Fluoride (F)	0.1	
Copper (Cu)	0.0	Hardness	76.0	60.0
Iron (Fe)	0.1	Magnesium (Mg)	7.3	
Lead (Pb)	0.007	Nitrates (NO_3)	0.1	
Manganese (Mn)	0.1	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.003	Sodium (Na)	22.0	
Nickel (Ni)	0.003	Sulfates (SO_4)	31.2	
Tin (Sn)	0.003	Total Dissolved Solids	169.0	
Vanadium (V)	*0.003	PH		8.5
Zinc (Zn)	*0.7	Color (S.U.)	10.0	5.0
Beryllium (Be)	*0.00007	Temperature °F (Raw Water)		64.0
		Turbidity (S.U.)	1.0	0.3

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	137
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	4.4		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PORTLAND, MAINE
(pop. 72,566)

Ownership PUBLIC

Population Served 145 thousand

River Basin NORTHEAST (Major)

PRESUMPSCOT RIVER AND CASCO BAY (Minor)

Source LAKE

Raw Water Capacity Range UNLIMITED

Treatment DISINFECTION

Design Capacity 45 mgd

% Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

MARCH 20 - APRIL 3, 1961

Results By
Spectographic Analvses

	mg/l
Antimony (Sb)	*0.008
Barium (Ba)	0.005
Bismuth (Bi)	*0.004
Cadmium (Cd)	*0.002
Chromium (Cr)	*0.0008
Cobalt (Co)	*0.002
Copper (Cu)	*0.0003
Iron (Fe)	0.06
Lead (Pb)	*0.004
Manganese (Mn)	0.006
Molybedenum (Mo)	*0.002
Nickel (Ni)	*0.002
Tin (Sn)	*0.002
Vanadium (V)	*0.002
Zinc (Zn)	*0.4
Beryllium (Be)	*0.00004

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)		
Calcium (Ca)	4.8	
Chlorides (Cl)	2.0	
Fluoride (F)	0.1	
Hardness	24.	
Magnesium (Mg)	2.9	
Nitrates (NO_3)	0.1	
Selenium (Se)	*0.005	
Sodium (Na)	2.	
Sulfates (SO_4)	4.0	
Total Dissolved Solids	40.0	
PH		6.7
Color (S.U.)	10.	10.
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.	0.

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	3.9
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	119
Carbon Alcohol Extractables (CAE)	174

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BALTIMORE, MARYLAND
(pop. 939,024)
ASHBURTON WATER TREATMENT PLANT

Ownership PUBLIC Population Served ______ thousand

River Basin NORTH ATLANTIC (Major) UPPER CHES. BAY & MD.-DEL. COAST (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 120 mgd % Municipal Supply Furnished By Plant 55

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

October 30 - November 13, 1961

Results By
Spectographic Analvses

	mg/1
Antimony (Sb)	*0.004
Barium (Ba)	0.007
Bismuth (Bi)	*0.002
Cadmium (Cd)	*0.001
Chromium (Cr)	*0.0004
Cobalt (Co)	*0.0007
Copper (Cu)	0.007
Iron (Fe)	0.02
Lead (Pb)	*0.002
Manganese (Mn)	0.007
Molybedenum (Mo)	*0.0007
Nickel (Ni)	*0.0007
Tin (Sn)	*0.0007
Vanadium (V)	*0.0007
Zinc (Zn)	*0.2
Beryllium (Be)	*0.00002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.08	
Calcium (Ca)	16.0	15.0
Chlorides (Cl)	13.0	8.6
Fluoride (F)	1.05	0.9
Hardness	52.0	49.0
Magnesium (Mg)	2.9	3.0
Nitrates (NO_3)	1.0	
Selenium (Se)	*0.01	
Sodium (Na)	3.7	
Sulfates (SO_4)	6.8	
Total Dissolved Solids	86.0	
PH		7.7
Color (S.U.)	3.0	3.0
Temperature °F (Raw Water)		50.0
Turbidity (S.U.)	3.0	0.1

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	4.6
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	59
Carbon Alcohol Extractables (CAE)	163

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BALTIMORE, MARYLAND
(pop. 939,024)
MONTEBELLO FILTER PLANT

Ownership PUBLIC Population Served 14 thousand

River Basin NORTH ATLANTIC (Major) UPPER CHESAPEAKE BAY & MD.-DEL. COAST (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION, DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 128 mgd % Municipal Supply Furnished By Plant 45

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

October 27 - November 10, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.005
Barium (Ba)	0.02
Bismuth (Bi)	*0.003
Cadmium (Cd)	*0.002
Chromium (Cr)	*0.0005
Cobalt (Co)	*0.001
Copper (Cu)	*0.0002
Iron (Fe)	0.02
Lead (Pb)	*0.003
Manganese (Mn)	0.03
Molybedenum (Mo)	*0.001
Nickel (Ni)	*0.001
Tin (Sn)	*0.001
Vanadium (V)	*0.001
Zinc (Zn)	*0.2
Beryllium (Be)	*0.0008

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	*0.01	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	19.0	15.0
Chlorides (Cl)	13.0	9.0
Fluoride (F)	1.2	0.8
Hardness	68.0	58.0
Magnesium (Mg)	4.9	3.9
Nitrates (NO_3)	0.7	
Selenium (Se)	*0.01	
Sodium (Na)	3.2	
Sulfates (SO_4)	6.9	
Total Dissolved Solids	100.0	
PH		7.8
Color (S.U.)	3.0	2.0
Temperature °F (Raw Water)		54.0
Turbidity (S.U.)	3.0	0.1

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	6.8
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	68
Carbon Alcohol Extractables (CAE)	144

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

HAGERSTOWN, MARYLAND
(pop. 36,660)
POTOMAC RIVER STATION

Ownership PUBLIC Population Served 58 thousand

River Basin NORTH ATLANTIC (Major) POTOMAC RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range 100 m.-1 bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 10 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

October 9 - October 25, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.04
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	*0.0007
Iron (Fe)	0.009
Lead (Pb)	*0.01
Manganese (Mn)	*0.009
Molybedenum (Mo)	*0.004
Nickel (Ni)	*0.004
Tin (Sn)	*0.004
Vanadium (V)	*0.004
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.07	
Arsenic (As)	*0.01	
Boron (B)	0.11	
Calcium (Ca)	43.0	
Chlorides (Cl)	25.0	
Fluoride (F)	1.10	
Hardness	156.0	
Magnesium (Mg)	11.6	
Nitrates (NO_3)	0.3	
Selenium (Se)	*0.01	
Sodium (Na)	12.0	
Sulfates (SO_4)	69.0	
Total Dissolved Solids	226.0	
PH		
Color (S.U.)	3.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	3.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	6.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	68
Carbon Alcohol Extractables (CAE)	194

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LOWELL, MASSACHUSETTS
(pop. 92,107)

Ownership PUBLIC Population Served 93 thousand

River Basin NORTHEAST (Major) MERRIMAC RIVER (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range ______

Treatment DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 11.0 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 16 - March 30, 1961

Results By Spectographic Analvses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.02	
Barium (Ba)	0.009	Arsenic (As)	*.01	
Bismuth (Bi)	*0.008	Boron (B)	.01	
Cadmium (Cd)	*0.005	Calcium (Ca)	13.6	
Chromium (Cr)	*0.002	Chlorides (Cl)	17.0	
Cobalt (Co)	0.003	Fluoride (F)	0.1	
Copper (Ca)	0.1	Hardness	52.0	
Iron (Fe)	0.9	Magnesium (Mg)	4.4	
Lead (Pb)	.03	Nitrates (NO_3)	0.3	
Manganese (Mn)	1.0	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.006	Sodium (Na)	9.0	
Nickel (Ni)	0.03	Sulfates (SO_4)	11.0	
Tin (Sn)	0.006	Total Dissolved Solids	100.0	
Vanadium (V)	*0.003	PH		
Zinc (Zn)	*0.8	Color (S.U.)	40.0	
Beryllium (Be)	*0.00008	Temperature $^{\circ}$F (Raw Water)		
		Turbidity (S.U.)	12.0	

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	97
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	154
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ANN ARBOR, MICHIGAN
(pop. 67,340)

Ownership PUBLIC Population Served 67 thousand

River Basin WESTERN GREAT LAKES (Major) LAKE ERIE, WESTERN SHORE (Minor)

Source RIVER, IMPOUNDED RESERVOIR GROUND WATER SUPPLY Raw Water Capacity Range 100m.- 1 bil.gal.

Treatment PURIFICATION, DISINFECTION, SOFTENING, IRON-MANGANESE REMOVAL

Design Capacity 23 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 20 - May 6, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.02	
Barium (Ba)	*0.003	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.008	Boron (B)	0.07	
Cadmium (Cd)	*0.005	Calcium (Ca)	16.0	19.0
Chromium (Cr)	*0.002	Chlorides (Cl)	14.0	
Cobalt (Co)	*0.003	Fluoride (F)	1.06	0.9
Copper (Cu)	0.0005	Hardness	96.0	89.0
Iron (Fe)	0.03	Magnesium (Mg)	13.0	10.0
Lead (Pb)	*0.008	Nitrates (NO_3)	0.5	
Manganese (Mn)	*0.006	Selenium (Se)	*0.01	
Molybedenum (Mo	0.006	Sodium (Na)	13.0	
Nickel (Ni)	*0.003	Sulfates (SO_4)	65.0	
Tin (Sn)	*0.003	Total Dissolved Solids	190.0	
Vanadium (V)	*0.003	PH		10.2
Zinc (Zn)	*0.8	Color (S.U.)	0.0	0.0
Beryllium (Be)	*0.00008	Temperature °F (Raw Water)		49.0
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	48
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	110
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BAY CITY, MICHIGAN
(pop. 53,604)

Ownership PUBLIC Population Served 70 thousand

River Basin WESTERN GREAT LAKES (Major) SAGINAW RIVER (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 20 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

September 14 - September 27, 1961

Results By Spectographic Analyses | Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.06	
Barium (Ba)	0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.005	Boron (B)	0.12	
Cadmium (Cd)	*0.009	Calcium (Ca)	29.0	29.0
Chromium (Cr)	*0.001	Chlorides (Cl)	30.0	40.0
Cobalt (Co)	0.01	Fluoride (F)	1.04	0.9
Copper (Cu)	0.005	Hardness	104.0	110.0
Iron (Fe)	0.12	Magnesium (Mg)	7.6	8.0
Lead (Pb)	*0.005	Nitrates (NO_3)	0.0	
Manganese (Mn)	0.004	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.003	Sodium (Na)	12.0	
Nickel (Ni)	0.002	Sulfates (SO_4)	18.0	
Tin (Sn)	*0.002	Total Dissolved Solids	166.0	
Vanadium (V)	*0.002	PH		8.3
Zinc (Zn)	0.5	Color (S.U.)	5.0	
Beryllium (Be)	*0.00005	Temperature °F (Raw Water)		51.0
		Turbidity (S.U.)	3.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	4.4
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	59
Carbon Alcohol Extractables (CAE)	180

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MONROE, MICHIGAN
(pop. 22,968)

Ownership PUBLIC Population Served 22 thousand

River Basin WESTERN GREAT LAKES (Major) LAKE ERIE WESTERN SHORE (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 8 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 19 - May 3, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.08	
Barium (Ba)	0.06	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.07	
Cadmium (Cd)	*0.006	Calcium (Ca)	50.0	46.0
Chromium (Cr)	0.004	Chlorides (Cl)	36.0	
Cobalt (Co)	*0.004	Fluoride (F)	1.1	0.8
Copper (Cu)	0.0008	Hardness	176.0	152.0
Iron (Fe)	0.02	Magnesium (Mg)	13.0	0.8
Lead (Pb)	*0.01	Nitrates (NO_3)	0.5	
Manganese (Mn)	0.2	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.006	Sodium (Na)	12.0	
Nickel (Ni)	*0.004	Sulfates (SO_4)	44.0	
Tin (Sn)	*0.004	Total Dissolved Solids	276.0	
Vanadium (V)	*0.004	PH		7.9
Zinc (Zn)	*1.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		52.0
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	112
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	223
Beta Activity			
Dissolved	4.6		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MUSKEGON, MICHIGAN
(pop. 46,485)

Ownership PUBLIC Population Served 62.2 thousand

River Basin WESTERN GREAT LAKES (Major) LAKE SUPERIOR (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 16.6 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

September 12 - September 27, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.02	
Barium (Ba)	0.02	Arsenic (As)	0.01	
Bismuth (Bi)	*0.008	Boron (B)	0.06	
Cadmium (Cd)	*0.003	Calcium (Ca)	32.0	
Chromium (Cr)	*0.001	Chlorides (Cl)	7.0	
Cobalt (Co)	*0.002	Fluoride (F)	0.99	0.9
Copper (Cu)	0.004	Hardness	132.0	134.0
Iron (Fe)	0.01	Magnesium (Mg)	13.0	
Lead (Pb)	*0.006	Nitrates (NO_3)	0.2	
Manganese (Mn)	*0.004	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.003	Sodium (Na)	5.5	
Nickel (Ni)	*0.002	Sulfates (SO_4)	29.0	
Tin (Sn)	*0.002	Total Dissolved Solids	168.0	
Vanadium (V)	0.006	PH		7.2
Zinc (Zn)	*0.6	Color (S.U.)	10.0	0.0
Beryllium (Be)	*0.00008	Temperature °F (Raw Water)		50.0
		Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	7.6
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	56
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PORT HURON, MICHIGAN
(pop. 36,084)

Ownership PUBLIC Population Served 39 thousand

River Basin WESTERN GREAT LAKES (Major) ST. CLAIR-DETROIT RIVERS (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment DISINFECTION

Design Capacity 22 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 21 - May 5, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	0.0008
Bismuth (Bi)	*0.005
Cadmium (Cd)	*0.003
Chromium (Cr)	*0.001
Cobalt (Co)	*0.002
Copper (Cu)	0.03
Iron (Fe)	0.7
Lead (Pb)	*0.005
Manganese (Mn)	0.09
Molybedenum (Mo)	0.003
Nickel (Ni)	0.003
Tin (Sn)	*0.002
Vanadium (V)	*0.002
Zinc (Zn)	*0.5
Beryllium (Be)	*0.00005

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.01	
Arsenic (As)	*0.01	
Boron (B)	0.04	
Calcium (Ca)	28.0	
Chlorides (Cl)	6.0	
Fluoride (F)	0.15	
Hardness	112.0	
Magnesium (Mg)	0.10	
Nitrates (NO_3)	0.2	
Selenium (Se)	*0.01	
Sodium (Na)	2.5	
Sulfates (SO_4)	12.0	
Total Dissolved Solids	174.0	
PH		
Color (S.U.)	0.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	20.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	2.9
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	49
Carbon Alcohol Extractables (CAE)	107

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SAULT STE. MARIE, MICHIGAN
(pop. 18,722)

Ownership PUBLIC Population Served 20 thousand

River Basin WESTERN GREAT LAKES (Major) LAKE MICH.-LAKE HURON NORTH SHORE (Minor)

Source RIVER, LAKE Raw Water Capacity Range UNLIMITED

Treatment DISINFECTION

Design Capacity 8 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

September 13 - September 29, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.003	ABS	0.02	
Barium (Ba)	0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.001	Boron (B)	0.9	
Cadmium (Cd)	0.0008	Calcium (Ca)	13.0	
Chromium (Cr)	0.001	Chlorides (Cl)	3.0	
Cobalt (Co)	*0.002	Fluoride (F)	1.1	1.0
Copper (Cu)	*0.05	Hardness	52.0	45.0
Iron (Fe)	0.3	Magnesium (Mg)	4.9	
Lead (Pb)	0.005	Nitrates (NO_3)	0.2	
Manganese (Mn)	0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.001	Sodium (Na)	1.5	
Nickel (Ni)	0.005	Sulfates (SO_4)	3.0	
Tin (Sn)	*0.0005	Total Dissolved Solids	80.0	
Vanadium (V)	0.0005	PH		7.2
Zinc (Zn)	*0.1	Color (S.U.)	7.0	0.0
Beryllium (Be)	*0.00001	Temperature °F (Raw Water)		44.0
		Turbidity (S.U.)	15.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	34
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	5.4		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

DULUTH, MINNESOTA
(pop. 106,884)

Ownership PUBLIC Population Served 108 thousand

River Basin WESTERN GREAT LAKES (Major) LAKE SUPERIOR (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment DISINFECTION

Design Capacity 72.6 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 21 - August 11, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.007
Barium (Ba)	0.007
Bismuth (Bi)	*0.003
Cadmium (Cd)	*0.002
Chromium (Cr)	*0.0007
Cobalt (Co)	*0.001
Copper (Cu)	0.003
Iron (Fe)	0.01
Lead (Pb)	*0.003
Manganese (Mn)	*0.003
Molybedenum (Mo)	*0.001
Nickel (Ni)	*0.001
Tin (Sn)	0.001
Vanadium (V)	*0.001
Zinc (Zn)	*0.3
Beryllium (Be)	*0.00003

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	*0.01	
Arsenic (As)	*0.01	
Boron (B)	0.04	
Calcium (Ca)	15.0	
Chlorides (Cl)		
Fluoride (F)	0.0	
Hardness	60.0	44.0
Magnesium (Mg)	5.3	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	1.3	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		40.0
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	2.0
Suspended	*1.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	56
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

GREENVILLE, MISSISSIPPI

(pop. 41,502)

Ownership Public Population Served 46 thousand

River Basin - (Major) - (Minor)

Source Ground Water Raw Water Capacity Range -

Treatment Disinfection

Design Capacity 12.8 mgd % Municipal Supply Furnished By Plant 100%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

February 16 - March 3, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.04
Barium (Ba)	*0.007
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.004
Cobalt (Co)	*0.007
Copper (Cu)	0.007
Iron (Fe)	0.1
Lead (Pb)	*0.02
Manganese (Mn)	*0.01
Molybedenum (Mo)	*0.007
Nickel (Ni)	0.007
Tin (Sn)	*0.007
Vanadium (V)	*0.007
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.04	
Arsenic (As)	0.01	
Boron (B)	0.68	
Calcium (Ca)	1.6	
Chlorides (Cl)		
Fluoride (F)	0.6	
Hardness	16.0	
Magnesium (Mg)	2.9	
Nitrates (NO_3)		
Selenium (Se)	*0.005	
Sodium (Na)	137.5	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	
Beta Activity	
Dissolved	*2.6
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	129
Carbon Alcohol Extractables (CAE)	51

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

JACKSON, MISSISSIPPI
(pop. 144,422)

Ownership PUBLIC Population Served 144 thousand

River Basin SOUTHEAST (Major) PEARL RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range 10 - 100 mg.

Treatment PURIFICATION

Design Capacity 37 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

June 1 - June 15, 1961

Results By Spectographic Analyses

	mg/1
Antimony (Sb)	*0.02
Barium (Ba)	0.02
Bismuth (Bi)	*0.008
Cadmium (Cd)	*0.005
Chromium (Cr)	*0.002
Cobalt (Co)	*0.003
Copper (Cu)	0.002
Iron (Fe)	0.006
Lead (Pb)	*0.008
Manganese (Mn)	0.1
Molybedenum (Mo)	0.005
Nickel (Ni)	*0.003
Tin (Sn)	0.01
Vanadium (V)	0.003
Zinc (Zn)	*0.8
Beryllium (Be)	*0.00008

Results By Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.06	
Arsenic (As)	*0.01	
Boron (B)	0.04	
Calcium (Ca)	19.0	
Chlorides (Cl)		
Fluoride (F)	0.1	
Hardness	60.0	43.0
Magnesium (Mg)	2.9	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	3.5	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		8.8
Color (S.U.)		
Temperature °F (Raw Water)		66.0
Turbidity (S.U.)		

Results By Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	67
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

VICKSBURG, MISSISSIPPI
(pop. 29,130)

Ownership PUBLIC Population Served 41 thousand

River Basin MISSISSIPPI RIVER (Major) YAZOO RIVER (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 10 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

February 15 - March 2, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.02	ABS	0.09	
Barium (Ba)	0.04	Arsenic (As)	0.01	
Bismuth (Bi)	*0.009	Boron (B)	0.04	
Cadmium (Cd)	*0.005	Calcium (Ca)	35.2	
Chromium (Cr)	*0.002	Chlorides (Cl)		
Cobalt (Co)	*0.004	Fluoride (F)	0.3	
Copper (Cu)	0.005	Hardness	120.0	
Iron (Fe)	0.008	Magnesium (Mg)	7.8	
Lead (Pb)	*0.009	Nitrates (NO_3)		
Manganese (Mn)	*0.008	Selenium (Se)	*0.005	
Molybedenum (Mo)	*0.004	Sodium (Na)	11.5	
Nickel (Ni)	*0.004	Sulfates (SO_4)		
Tin (Sn)	*0.004	Total Dissolved Solids		
Vanadium (V)	*0.004	PH		
Zinc (Zn)	*0.9	Color (S.U.)		
Beryllium (Be)	*0.00009	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	93
Suspended		Carbon Alcohol Extractables (CAE)	114
Beta Activity			
Dissolved	4.3		
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CAPE GIRARDEAU, MISSOURI
(pop. 24,947)

Ownership PRIVATE Population Served 25 thousand

River Basin UPPER MISSISSIPPI (Major) MISS - CAPE GIRARDEAU AREA (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 3 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 3 - January 17, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.04	ABS	0.23	
Barium (Ba)	0.08	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.1	
Cadmium (Cd)	*0.01	Calcium (Ca)	70.0	
Chromium (Cr)	*0.004	Chlorides (Cl)	31.3	
Cobalt (Co)	*0.008	Fluoride (F)	1.0	
Copper (Cu)	0.001	Hardness	292.0	
Iron (Fe)	0.01	Magnesium (Mg)	28.7	
Lead (Pb)	*0.02	Nitrates (NO_3)	0.5	
Manganese (Mn)	*0.02	Selenium (Se)	0.0	
Molybedenum (Mo)	*0.008	Sodium (Na)	27.5	
Nickel (Ni)	*0.008	Sulfates (SO_4)	84.8	
Tin (Sn)	*0.008	Total Dissolved Solids	431.0	
Vanadium (V)	*0.008	PH		
Zinc (Zn)	*2.0	Color (S.U.)		
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.1	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	56
Suspended		Carbon Alcohol Extractables (CAE)	263
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ST. LOUIS, MISSOURI
(pop. 750,026)
CHAIN OF ROCKS PLANT

Ownership PUBLIC   Population Served ______ thousand

River Basin UPPER MISSISSIPPI (Major)   MISSISSIPPI-ST. LOUIS AREA (Minor)

Source RIVER   Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 240 mgd   % Municipal Supply Furnished By Plant 72%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 27 - April 10, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.02
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	0.004
Iron (Fe)	0.07
Lead (Pb)	*0.01
Manganese (Mn)	*0.009
Molybedenum (Mo)	0.007
Nickel (Ni)	0.007
Tin (Sn)	*0.004
Vanadium (V)	*0.004
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.05	
Arsenic (As)	0.0	
Boron (B)	0.0	
Calcium (Ca)	28.8	14.0
Chlorides (Cl)	16.5	27.0
Fluoride (F)	0.9	0.9
Hardness	96.0	104.0
Magnesium (Mg)	5.8	11.0
Nitrates (NO_3)	5.7	
Selenium (Se)	*0.01	
Sodium (Na)	10.5	
Sulfates (SO_4)	64.8	
Total Dissolved Solids	173.0	
PH		9.2
Color (S.U.)	10.0	8.0
Temperature °F (Raw Water)		57.0
Turbidity (S.U.)	0.2	0.1

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	51
Carbon Alcohol Extractables (CAE)	101

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ST. LOUIS, MISSOURI
(pop. 750,026)

HOWARD BEND PLANT

Ownership PUBLIC Population Served 250 thousand

River Basin MISSOURI RIVER (Major) LOWER MISSOURI (Minor)

Source RIVER Raw Water Capacity Range 10-100 mgd

Treatment PURIFICATION, DISINFECTION, & SOFTENING

Design Capacity 80 mgd % Municipal Supply Furnished By Plant 28%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

December 5 - December 19, 1960

Results By Spectographic Analyses	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.01
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	*0.002
Cobalt (Co)	*0.005
Copper (Cu)	0.0007
Iron (Fe)	0.01
Lead (Pb)	*0.01
Manganese (Mn)	*0.009
Molybedenum (Mo)	0.007
Nickel (Ni)	*0.005
Tin (Sn)	*0.005
Vanadium (V)	*0.005
Zinc (Zn)	*1.0
Beryllium (Be)	0.0001

Results By Chemical And Physical Analyses(1)	mg/l	mg/l
ABS	0.09	
Arsenic (As)	0.0	
Boron (B)	0.12	
Calcium (Ca)	20.0	
Chlorides (Cl)	26.0	22.0
Fluoride (F)	0.9	0.9
Hardness	152.0	106.0
Magnesium (Mg)	24.8	11.0
Nitrates (NO_3)	3.7	
Selenium (Se)	0.004	
Sodium (Na)	35.0	
Sulfates (SO_4)	110.5	
Total Dissolved Solids	297.0	
PH		9.2
Color (S.U.)	5.0	6.0
Temperature °F (Raw Water)		58.0
Turbidity (S.U.)	0.07	0.1

Results By Radiochemical Analyses	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	51
Carbon Alcohol Extractables (CAE)	101

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BILLINGS, MONTANA
(pop. 52,851)

Ownership PUBLIC Population Served 65.5 thousand

River Basin MISSOURI RIVER (Major) YELLOWSTONE (Minor)

Source RIVER Raw Water Capacity Range 100 m.-1 bil. g.

Treatment PURIFICATION & DISINFECTION

Design Capacity 22 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 17 - January 31, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.03
Barium (Ba)	0.03
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.003
Cobalt (Co)	*0.007
Copper (Cu)	0.002
Iron (Fe)	0.02
Lead (Pb)	*0.02
Manganese (Mn)	0.03
Molybedenum (Mo)	*0.007
Nickel (Ni)	*0.007
Tin (Sn)	*0.007
Vanadium (V)	*0.007
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	0.007	
Boron (B)	0.3	
Calcium (Ca)	51.2	
Chlorides (Cl)	11.0	
Fluoride (F)	0.6	
Hardness	220.0	
Magnesium (Mg)	22.3	
Nitrates (NO_3)	1.6	
Selenium (Se)	*0.001	
Sodium (Na)	31.0	
Sulfates (SO_4)	132.0	
Total Dissolved Solids	370.0	
PH		
Color (S.U.)	1.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.0	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	23
Carbon Alcohol Extractables (CAE)	74

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BUTTE, MONTANA
(pop. 27,877)
BASIN CREEK

Ownership PRIVATE Population Served 50 thousand

River Basin MISSOURI RIVER (Major) UPPER MISSOURI RIVER (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range 1-10 mg.

Treatment DISINFECTION

Design Capacity 21 mgd % Municipal Supply Furnished By Plant 60%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 19 - February 5, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.02	
Barium (Ba)	0.01	Arsenic (As)	0.0	
Bismuth (Bi)	*0.006	Boron (B)	0.0	
Cadmium (Cd)	*0.004	Calcium (Ca)	17.6	
Chromium (Cr)	*0.001	Chlorides (Cl)	1.0	
Cobalt (Co)	*0.002	Fluoride (F)	1.0	
Copper (Cu)	0.06	Hardness	76.0	
Iron (Fe)	1.0	Magnesium (Mg)	7.8	
Lead (Pb)	*0.006	Nitrates (NO_3)	1.1	
Manganese (Mn)	0.1	Selenium (Se)	0.0	
Molybedenum (Mo)	0.005	Sodium (Na)	3.0	
Nickel (Ni)	*0.002	Sulfates (SO_4)	25.0	
Tin (Sn)	0.02	Total Dissolved Solids	130.0	
Vanadium (V)	*0.002	PH		
Zinc (Zn)	*0.6	Color (S.U.)	5.0	
Beryllium (Be)	*0.00006	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	28
Suspended		Carbon Alcohol Extractables (CAE)	92
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BUTTE, MONTANA
(pop. 27,877)
BIG HOLE

Ownership PRIVATE Population Served 50 thousand

River Basin MISSOURI RIVER (Major) UPPER MISSOURI RIVER (Minor)

Source RIVER, STREAM, CREEK Raw Water Capacity Range 10-100 mg.

Treatment DISINFECTION

Design Capacity 14 mgd % Municipal Supply Furnished By Plant 40%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 19 - February 3, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.02	
Barium (Ba)	0.09	Arsenic (As)	0.0	
Bismuth (Bi)	*0.007	Boron (B)	0.0	
Cadmium (Cd)	*0.004	Calcium (Ca)	20.8	
Chromium (Cr)	*0.001	Chlorides (Cl)	3.0	
Cobalt (Co)	*0.003	Fluoride (F)	0.07	
Copper (Cu)	0.04	Hardness	80.0	
Iron (Fe)	0.9	Magnesium (Mg)	6.8	
Lead (Pb)	*0.007	Nitrates (NO_3)	0.4	
Manganese (Mn)	0.05	Selenium (Se)	0.0	
Molybedenum (Mo)	0.007	Sodium (Na)	6.5	
Nickel (Ni)	*0.03	Sulfates (SO_4)	12.0	
Tin (Sn)	*0.003	Total Dissolved Solids	140.0	
Vanadium (V)	*0.003	PH		
Zinc (Zn)	*0.7	Color (S.U.)	5.0	
Beryllium (Be)	*0.00007	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	36
Suspended		Carbon Alcohol Extractables (CAE)	90
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NORTH PLATTE, NEBRASKA
(pop. 17,184)

Ownership PUBLIC Population Served 17,184 thousand

River Basin MISSOURI RIVER (Major) LOWER PLATTE (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range 0-1 mg.

Treatment DISINFECTION

Design Capacity 18 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

October 24 - November 7, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.05	ABS	0.03	
Barium (Ba)	0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.2	
Cadmium (Cd)	*0.01	Calcium (Ca)	58.0	
Chromium (Cr)	*0.005	Chlorides (Cl)		
Cobalt (Co)	*0.01	Fluoride (F)	0.9	
Copper (Cu)	0.005	Hardness	196.0	
Iron (Fe)	0.01	Magnesium (Mg)	12.0	
Lead (Pb)	*0.02	Nitrates (NO_3)		
Manganese (Mn)	*0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.02	Sodium (Na)	52.0	
Nickel (Ni)	*0.01	Sulfates (SO_4)		
Tin (Sn)	*0.01	Total Dissolved Solids	479.0	
Vanadium (V)	*0.01	PH		
Zinc (Zn)	*2.0	Color (S.U.)		
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	11.4	Carbon Chloroform Extractables (CCE)	23
Suspended	0.3	Carbon Alcohol Extractables (CAE)	154
Beta Activity			
Dissolved	14.1		
Suspended	0.3		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

OMAHA, NEBRASKA
(pop. 301,598)

Ownership PUBLIC Population Served 400 thousand

River Basin MISSOURI RIVER (Major) LOWER MISSOURI (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 140 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

February 13 - February 27, 1961

Results By Spectographic Analyses

Results By Chemical And Physical Analyses(1)

	mg/1		mg/1	mg/1
Antimony (Sb)	*0.04	ABS	0.06	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.1	
Cadmium (Cd)	*0.01	Calcium (Ca)	36.0	25.0
Chromium (Cr)	*0.004	Chlorides (Cl)	18.0	14.0
Cobalt (Co)	*0.008	Fluoride (F)	0.5	0.5
Copper (Cu)	*0.001	Hardness	168.0	123.0
Iron (Fe)	0.02	Magnesium (Mg)	19.0	14.0
Lead (Pb)	*0.02	Nitrates (NO_3)	0.3	
Manganese (Mn)	*0.02	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.01	Sodium (Na)	52.5	
Nickel (Ni)	*0.008	Sulfates (SO_4)	173.0	
Tin (Sn)	*0.008	Total Dissolved Solids	385.0	
Vanadium (V)	*0.008	PH		
Zinc (Zn)	*2.0	Color (S.U.)	5.0	
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.2	0.2

Results By Radiochemical Analyses

Results By Carbon Adsorption Method (CAM)

	uuc/1		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	98
Suspended		Carbon Alcohol Extractables (CAE)	198
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

RENO, NEVADA
(Pop. 51,470)

Ownership PRIVATE Population Served 50 thousand

River Basin GREAT BASIN (Major) HUMBOLDT RIVER (Minor)

Source GROUND WATER SUPPLY-RIVER Raw Water Capacity Range 0-1 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity 76 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 23 - February 5, 1962

Results By Spectographic Analyses — Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.0	
Barium (Ba)	0.04	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.007	Boron (B)	0.11	
Cadmium (Cd)	*0.004	Calcium (Ca)	16.0	
Chromium (Cr)	*0.001	Chlorides (Cl)	7.0	
Cobalt (Co)	*0.003	Fluoride (F)	0.1	
Copper (Cu)	0.005	Hardness	92.0	
Iron (Fe)	0.07	Magnesium (Mg)	13.0	
Lead (Pb)	*0.007	Nitrates (NO_3)	0.0	
Manganese (Mn)	0.1	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.005	Sodium (Na)	9.0	
Nickel (Ni)	*0.003	Sulfates (SO_4)	24.0	
Tin (Sn)	*0.003	Total Dissolved Solids	118.0	
Vanadium (V)	*0.003	PH		
Zinc (Zn)	*0.7	Color (S.U.)	4.0	
Beryllium (Be)	*0.00007	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses — Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity		Carbon Chloroform Extractables (CCE)	
Dissolved		Carbon Alcohol Extractables (CAE)	
Suspended			
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TRENTON, NEW JERSEY
(pop. 114,167)

Ownership Public Population Served 200 thousand

River Basin NORTH ATLANTIC (Major) DELAWARE RIVER (Minor)

Source RIVER Raw Water Capacity Range Unlimited

Treatment Purification, Disinfection

Design Capacity 25 mgd % Municipal Supply Furnished By Plant 100%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

October 2 - October 16, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.007	ABS	0.11	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.003	Boron (B)	0.04	
Cadmium (Cd)	*0.002	Calcium (Ca)	21.0	
Chromium (Cr)	0.002	Chlorides (Cl)	10.0	
Cobalt (Co)	*0.001	Fluoride (F)	0.2	
Copper (Cu)	0.1	Hardness	92.0	
Iron (Fe)	0.05	Magnesium (Mg)	9.7	
Lead (Pb)	*0.003	Nitrates (NO_3)	0.6	
Manganese (Mn)	0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.04	Sodium (Na)	6.5	
Nickel (Ni)	0.01	Sulfates (SO_4)	20.0	
Tin (Sn)	0.003	Total Dissolved Solids	112.0	
Vanadium (V)	*0.001	PH		
Zinc (Zn)	*0.3	Color (S.U.)	0.0	
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	99
Suspended		Carbon Alcohol Extractables (CAE)	205
Beta Activity			
Dissolved	10.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BERLIN, NEW HAMPSHIRE
(pop. 17,821)

Ownership PUBLIC Population Served 17 thousand

River Basin NORTHEAST (Major) CONNECTICUT RIVER (Minor)

Source RIVER, STREAM, & IMPOUNDED RESERVOIR Raw Water Capacity Range 10-100 mg

Treatment PURIFICATION & DISINFECTION

Design Capacity 2.5 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

May 1 - May 13, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.003
Barium (Ba)	0.002
Bismuth (Bi)	*0.001
Cadmium (Cd)	*0.0008
Chromium (Cr)	*0.0003
Cobalt (Co)	*0.0005
Copper (Cu)	0.05
Iron (Fe)	0.03
Lead (Pb)	0.002
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.0005
Nickel (Ni)	0.0005
Tin (Sn)	*0.0005
Vanadium (V)	*0.0005
Zinc (Zn)	*0.1
Beryllium (Be)	0.00001

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	4.0	
Chlorides (Cl)	-	
Fluoride (F)	0.23	
Hardness	16.0	
Magnesium (Mg)	1.5	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	2.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*1.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	74
Carbon Alcohol Extractables (CAE)	221

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MANCHESTER, NEW HAMPSHIRE
(pop. 88,282)

Ownership PUBLIC Population Served 92 thousand

River Basin NORTHEAST (Major) MERRIMAC RIVER (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment DISINFECTION

Design Capacity 23 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 3 - May 17, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.004
Barium (Ba)	0.1
Bismuth (Bi)	*0.002
Cadmium (Cd)	*0.001
Chromium (Cr)	*0.0004
Cobalt (Co)	*0.0007
Copper (Cu)	*0.04
Iron (Fe)	0.03
Lead (Pb)	0.003
Manganese (Mn)	0.02
Molybedenum (Mo)	*0.0007
Nickel (Ni)	0.0007
Tin (Sn)	*0.0007
Vanadium (V)	*0.0007
Zinc (Zn)	*0.2
Beryllium (Be)	*0.00002

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.09	
Calcium (Ca)	6.4	
Chlorides (Cl)		9.0
Fluoride (F)	0.01	
Hardness	0.20	19.0
Magnesium (Mg)	1.0	
Nitrates (NO$_3$)		
Selenium (Se)	0.01	
Sodium (Na)	3.5	
Sulfates (SO$_4$)	5.0	
Total Dissolved Solids	36.0	
PH		6.1
Color (S.U.)	25.0	20.0
Temperature °F (Raw Water)		
Turbidity (S.U.)	2.0	0.0

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	4.4
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	132
Carbon Alcohol Extractables (CAE)	247

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ALBUQUERQUE, NEW MEXICO
(pop. 201,189)

Ownership PUBLIC Population Served 214 thousand

River Basin WESTERN GULF (Major) RIO GRANDE (UPPER) (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 108.7 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

June 6 - June 21, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.03
Barium (Ba)	0.06
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.009
Chromium (Cr)	*0.003
Cobalt (Co)	*0.006
Copper (Ca)	0.09
Iron (Fe)	0.01
Lead (Pb)	*0.01
Manganese (Mn)	*0.01
Molybedenum (Mo)	0.005
Nickel (Ni)	*0.006
Tin (Sn)	*0.006
Vanadium (V)	*0.006
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.04	
Arsenic (As)	0.01	
Boron (B)	0.14	
Calcium (Ca)	34.0	
Chlorides (Cl)	24.0	
Fluoride (F)	0.7	
Hardness	120.0	
Magnesium (Mg)	8.2	
Nitrates (NO_3)	0.0	
Selenium (Se)	*0.01	
Sodium (Na)	23.0	
Sulfates (SO_4)		
Total Dissolved Solids	270.0	
PH		
Color (S.U.)	0.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.0	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	2.2
Suspended	*0.5
Beta Activity	
Dissolved	4.8
Suspended	*1.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	16
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

FARMINGTON, NEW MEXICO
(pop. 23,786)

Ownership PUBLIC Population Served 24 thousand

River Basin COLORADO RIVER (Major) UPPER COLORADO RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 10 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

June 7 - July 3, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	0.01
Bismuth (Bi)	*0.007
Cadmium (Cd)	*0.004
Chromium (Cr)	*0.001
Cobalt (Co)	*0.003
Copper (Cu)	0.004
Iron (Fe)	0.01
Lead (Pb)	*0.007
Manganese (Mn)	*0.006
Molybedenum (Mo)	0.003
Nickel (Ni)	*0.003
Tin (Sn)	*0.003
Vanadium (V)	0.003
Zinc (Zn)	*0.7
Beryllium (Be)	*0.00007

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.04	
Arsenic (As)	*0.01	
Boron (B)	0.09	
Calcium (Ca)	47.0	55.0
Chlorides (Cl)	25.0	34.0
Fluoride (F)	0.4	
Hardness	148.0	279.0
Magnesium (Mg)	7.3	
Nitrates (NO_3)	0.0	
Selenium (Se)	*0.01	
Sodium (Na)	12.0	
Sulfates (SO_4)	88.0	
Total Dissolved Solids	220.0	
PH		8.8
Color (S.U.)	4.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	2.0	0.0

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	33
Carbon Alcohol Extractables (CAE)	57

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ALBANY, NEW YORK
(pop. 129,726)

Ownership Public Population Served 120 thousand

River Basin - (Major) - (Minor)

Source River Raw Water Capacity Range Unlimited

Treatment Purification, disinfection, iron & manganese removal

Design Capacity 32mgd % Municipal Supply Furnished By Plant 100%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

September 27 - October 5, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.004
Barium (Ba)	*0.0007
Bismuth (Bi)	*0.002
Cadmium (Cd)	*0.001
Chromium (Cr)	*0.0004
Cobalt (Co)	*0.0007
Copper (Cu)	0.07
Iron (Fe)	0.2
Lead (Pb)	*0.002
Manganese (Mn)	0.02
Molybedenum (Mo)	*0.0007
Nickel (Ni)	*0.0007
Tin (Sn)	0.001
Vanadium (V)	*0.0007
Zinc (Zn)	*0.2
Beryllium (Be)	*0.00002

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	16.0	
Chlorides (Cl)	6.0	
Fluoride (F)	0.07	
Hardness	48.0	
Magnesium (Mg)	1.9	
Nitrates (NO_3)	0.1	
Selenium (Se)	*0.01	
Sodium (Na)	2.0	
Sulfates (SO_4)	4.1	
Total Dissolved Solids	62.0	
PH		
Color (S.U.)	5.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	1.4	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	103
Carbon Alcohol Extractables (CAE)	266

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BUFFALO, NEW YORK
(pop. 532,759)

Ownership PUBLIC Population Served 600 thousand

River Basin NORTHEAST (Major) LAKE ERIE _ NIAGARA (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 160 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

September 29 - October 13, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.03	
Barium (Ba)	0.04	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.007	Boron (B)	0.04	
Cadmium (Cd)	*0.004	Calcium (Ca)	38.0	
Chromium (Cr)	*0.001	Chlorides (Cl)	24.0	25.0
Cobalt (Co)	*0.003	Fluoride (F)	1.15	
Copper (Cu)	0.001	Hardness	144.0	
Iron (Fe)	0.03	Magnesium (Mg)	12.0	
Lead (Pb)	*0.007	Nitrates (NO_3)	*0.1	
Manganese (Mn)	*0.006	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.006	Sodium (Na)	9.0	
Nickel (Ni)	*0.003	Sulfates (SO_4)	25.0	
Tin (Sn)	0.004	Total Dissolved Solids	218.0	
Vanadium (V)	*0.003	PH		7.3
Zinc (Zn)	*0.7	Color (S.U.)	0.0	
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	3.8
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	66
Carbon Alcohol Extractables (CAE)	150

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NEW YORK CITY, NEW YORK
(pop. 7,781,984)
CATSKILL SUPPLY

Ownership Public Population Served 6300 thousand

River Basin Northeast & North Atlantic (Major) Mohawk River, Lower Hudron, Delaware River Basin Zone -1 (Minor)

Source River Raw Water Capacity Range Unlimited

Treatment Disinfection

Design Capacity 1210 mgd % Municipal Supply Furnished By Plant -

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

October 24 - November 8, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.008	ABS	0.02	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.004	Boron (B)	0.08	
Cadmium (Cd)	*0.002	Calcium (Ca)	9.6	
Chromium (Cr)	0.002	Chlorides (Cl)	2.8	
Cobalt (Co)	*0.002	Fluoride (F)	0.12	
Copper (Cu)	0.08	Hardness	28.0	
Iron (Fe)	0.008	Magnesium (Mg)	1.0	
Lead (Pb)	*0.004	Nitrates (NO_3)	0.2	
Manganese (Mn)	0.08	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.002	Sodium (Na)	1.9	
Nickel (Ni)	0.002	Sulfates (SO_4)	11.2	
Tin (Sn)	0.002	Total Dissolved Solids	38.0	
Vanadium (V)	*0.002	PH		
Zinc (Zn)	*0.4	Color (S.U.)	10.0	
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	2.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	62
Suspended		Carbon Alcohol Extractables (CAE)	115
Beta Activity			
Dissolved	3.7		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NEW YORK CITY, NEW YORK
(pop. 7,781,984)
CROTON SUPPLY

Ownership Public

Population Served 1500 thousand

River Basin Northeast (Major)

Lower Hudson (Minor)

Source RESERVOIR

Raw Water Capacity Range Unlimited

Treatment Disinfection

Design Capacity 290 mgd

% Municipal Supply Furnished By Plant -

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

November 14 - November 29, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	0.01	ABS	0.05	
Barium (Ba)	0.02	Arsenic (As)	0.01	
Bismuth (Bi)	0.005	Boron (B)	0.02	
Cadmium (Cd)	0.003	Calcium (Ca)	14.0	
Chromium (Cr)	0.001	Chlorides (Cl)	7.9	
Cobalt (Co)	0.002	Fluoride (F)	0.1	
Copper (Cu)	0.03	Hardness		
Iron (Fe)	0.08	Magnesium (Mg)	8.3	
Lead (Pb)	0.005	Nitrates (NO_3)	0.1	
Manganese (Mn)	0.09	Selenium (Se)	0.01	
Molytedenum (Mo)	0.005	Sodium (Na)	4.0	
Nickel (Ni)	0.002	Sulfates (SO_4)	17.8	
Tin (Sn)	0.004	Total Dissolved Solids	103.0	
Vanadium (V)	0.002	PH		
Zinc (Zn)	0.5	Color (S.U.)	12.0	
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	3.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	39
Suspended		Carbon Alcohol Extractables (CAE)	176
Beta Activity			
Dissolved	11.0		
Suspended	8.0		

(1) NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NEW YORK CITY, NEW YORK
(pop. 7,781,984)
JAMAICA WATER SUPPLY

Ownership Private
Population Served 600 thousand

River Basin - (Major) - (Minor)

Source Ground Water
Raw Water Capacity Range -

Treatment Disinfection, Iron & Manganese Removal

Design Capacity 106 mgd
% Municipal Supply Furnished By Plant -

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

October 16 - November 3, 1961

Results By Spectographic Analyses

	mg/1
Antimony (Sb)	*0.02
Barium (Ba)	0.01
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	0.004
Iron (Fe)	0.1
Lead (Pb)	*0.01
Manganese (Mn)	0.1
Molybedenum (Mo)	*0.004
Nickel (Ni)	*0.007
Tin (Sn)	0.01
Vanadium (V)	*0.004
Zinc (Zn)	*1.0
Beryllium	*0.00002

Results By Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.04	
Arsenic (As)	*0.01	
Boron (B)	0.09	
Calcium (Ca)	29.0	
Chlorides (Cl)		
Fluoride (F)	0.17	
Hardness	100.0	
Magnesium (Mg)	6.8	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	11.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	3.4
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	47
Carbon Alcohol Extractables (CAE)	80

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NEW YORK CITY, NEW YORK
(pop. 7,781, 984)
WOOD HAVEN WATER DIVISION

Ownership Private Population Served 150 thousand

River Basin (Major) (Minor)

Source Ground Water Raw Water Capacity Range -

Treatment -

Design Capacity 152 mgd % Municipal Supply Furnished By Plant -

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.05
Barium (Ba)	0.05
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	0.01
Cobalt (Co)	*0.009
Copper (Cu)	0.01
Iron (Fe)	0.1
Lead (Pb)	*0.02
Manganese (Mn)	*0.02
Molybedenum (Mo)	*0.009
Nickel (Ni)	*0.009
Tin (Sn)	*0.009
Vanadium (V)	*0.009
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.05	
Arsenic (As)	*0.01	
Boron (B)	0.09	
Calcium (Ca)	79.0	
Chlorides (Cl)	50.0	
Fluoride (F)	0.36	
Hardness	348.0	
Magnesium (Mg)	36.0	
Nitrates (NO_3)	12.4	
Selenium (Se)	*0.01	
Sodium (Na)	21.0	
Sulfates (SO_4)	19.0	
Total Dissolved Solids	509.0	
PH		
Color (S.U.)	3.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	1.0	

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	3.2
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	21
Carbon Alcohol Extractables (CAE)	138

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ROCHESTER, NEW YORK
(pop. 318,611)
LAKE HEMLOCK

Ownership PUBLIC Population Served 292 thousand

River Basin NORTHEAST (Major) LAKE ONTARIO (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 36 mgd % Municipal Supply Furnished By Plant 88

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

September 13 - September 27, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.009
Barium (Ba)	0.02
Bismuth (Bi)	*0.005
Cadmium (Cd)	*0.003
Chromium (Cr)	*0.0009
Cobalt (Co)	*0.002
Copper (Cu)	0.06
Iron (Fe)	0.04
Lead (Pb)	*0.005
Manganese (Mn)	0.007
Molybedenum (Mo)	0.004
Nickel (Ni)	*0.002
Tin (Sn)	*0.002
Vanadium (V)	*0.002
Zinc (Zn)	*0.5
Beryllium (Be)	*0.00002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.07	
Calcium (Ca)	27.0	22.0
Chlorides (Cl)	12.0	13.0
Fluoride (F)	1.04	1.0
Hardness	88.0	69.0
Magnesium (Mg)	4.9	5.0
Nitrates (NO_3)	*0.1	
Selenium (Se)	*0.01	
Sodium (Na)	5.5	
Sulfates (SO_4)	6.0	
Total Dissolved Solids	124.0	
PH		75.0
Color (S.U.)	1.0	0.75
Temperature °F (Raw Water)		35.0
Turbidity (S.U.)	1.50	1.5

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	3.7
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	50
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SCHENECTADY, NEW YORK
(pop. 81,682)

Ownership PUBLIC Population Served 112.2 thousand

River Basin NORTHEAST (Major) MOHAWK RIVER (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 43 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

September 28 - October 10, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.03	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.09	
Cadmium (Cd)	0.006	Calcium (Ca)	53.0	
Chromium (Cr)	*0.002	Chlorides (Cl)	11.4	
Cobalt (Co)	*0.004	Fluoride (F)	0.05	
Copper (Cu)	0.01	Hardness	184.0	
Iron (Fe)	0.2	Magnesium (Mg)	12.0	
Lead (Pb)	0.4	Nitrates (NO_3)	0.0	
Manganese (Mn)	*0.2	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.006	Sodium (Na)	7.8	
Nickel (Ni)	*0.004	Sulfates (SO_4)	24.6	
Tin (Sn)	*0.004	Total Dissolved Solids	244.0	
Vanadium (V)	*0.004	PH		
Zinc (Zn)	*1.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)	1.4	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	27
Suspended		Carbon Alcohol Extractables (CAE)	66
Beta Activity			
Dissolved	*3.0		
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TROY, NEW YORK
(pop. 67,492)

Ownership PUBLIC Population Served 73 thousand

River Basin LOWER HUDSON RIVER (Major) HOOSIC RIVER (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range 100 mil.-1 bil. gl.

Treatment DISINFECTION

Design Capacity 46 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

September 27 - October 12, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.007	ABS	0.02	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.004	Boron (B)	0.08	
Cadmium (Cd)	*0.002	Calcium (Ca)	18.0	
Chromium (Cr)	0.004	Chlorides (Cl)	6.2	
Cobalt (Co)	*0.001	Fluoride (F)	0.16	
Copper (Cu)	0.03	Hardness	68.0	
Iron (Fe)	0.44	Magnesium (Mg)	5.3	
Lead (Pb)	*0.004	Nitrates (NO_3)	0.1	
Manganese (Mn)	0.56	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.001	Sodium (Na)	3.5	
Nickel (Ni)	0.002	Sulfates (SO_4)	11.8	
Tin (Sn)	*0.001	Total Dissolved Solids	103.0	
Vanadium (V)	*0.001	PH		
Zinc (Zn)	*0.4	Color (S.U.)	10.0	
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	16.3	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	48
Suspended		Carbon Alcohol Extractables (CAE)	104
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CHARLOTTE, NORTH CAROLINA
(pop. 201,564)
HOSKINS PLANT

Ownership PUBLIC Population Served 211 thousand

River Basin NORTH ATLANTIC (Major) SUSQUEHANNA RIVER BASIN - NORTH BRANCH (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 12 mgd % Municipal Supply Furnished By Plant 40%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

March 30 - April 14, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.003	ABS	0.01	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.002	Boron (B)	0.02	
Cadmium (Cd)	*0.0009	Calcium (Ca)	8.8	
Chromium (Cr)	*0.0003	Chlorides (Cl)	2.0	
Cobalt (Co)	*0.0006	Fluoride (F)	1.17	1.0
Copper (Cu)	0.0006	Hardness	36.0	24.0
Iron (Fe)	0.02	Magnesium (Mg)	3.4	
Lead (Pb)	*0.002	Nitrates (NO_3)	19.0	
Manganese (Mn)	0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.03	Sodium (Na)	3.0	
Nickel (Ni)	0.0006	Sulfates (SO_4)	*10.0	
Tin (Sn)	0.006	Total Dissolved Solids		
Vanadium (V)	*0.0006	PH		9.0
Zinc (Zn)	*0.2	Color (S.U.)	0.0	0.0
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		66.0
		Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity		Carbon Chloroform Extractables (CCE)	91
Dissolved	*0.5	Carbon Alcohol Extractables (CAE)	110
Suspended	*0.5		
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CHARLOTTE, NORTH CAROLINA
(201,564)
VEST STATION PLANT

Ownership PUBLIC Population Served 211 thousand

River Basin NORTH ATLANTIC (Major) SUSQUEHANNA RIVER BASIN- NORTH BRANCH (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 24 mgd % Municipal Supply Furnished By Plant 60%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 30 - April 14, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.004	ABS	0.01	
Barium (Ba)	*0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.002	Boron (B)	0.04	
Cadmium (Cd)	*0.001	Calcium (Ca)	8.8	
Chromium (Cr)	*0.0004	Chlorides (Cl)	4.0	
Cobalt (Co)	*0.0007	Fluoride (F)	1.17	1.0
Copper (Cu)	0.0007	Hardness	36.0	23.0
Iron (Fe)	0.01	Magnesium (Mg)	3.4	
Lead (Pb)	*0.002	Nitrates (NO_3)	0.2	
Manganese (Mn)	0.04	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.0007	Sodium (Na)	3.0	
Nickel (Ni)	*0.0007	Sulfates (SO_4)	*10.0	
Tin (Sn)	*0.0004	Total Dissolved Solids	54.0	
Vanadium (V)	0.0007	PH		9.0
Zinc (Zn)	0.2	Color (S.U.)	0.0	0.0
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		56.0
		Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	82
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	96
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

RALEIGH, NORTH CAROLINA
(93,931)

Ownership PUBLIC Population Served 94 thousand

River Basin SOUTHEAST (Major) NEWUSE RIVER BASIN (Minor)

Source STREAM, CREEK, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 13 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

April 10 - April 24, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.005
Barium (Ba)	0.02
Bismuth (Bi)	*0.003
Cadmium (Cd)	*0.002
Chromium (Cr)	*0.0005
Cobalt (Co)	*0.001
Copper (Cu)	0.001
Iron (Fe)	0.02
Lead (Pb)	*0.003
Manganese (Mn)	0.04
Molybedenum (Mo)	*0.001
Nickel (Ni)	*0.001
Tin (Sn)	*0.001
Vanadium (V)	*0.001
Zinc (Zn)	*0.3
Beryllium (Be)	*0.00003

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.0	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	14.0	
Chlorides (Cl)		
Fluoride (F)	1.10	0.9
Hardness	44.0	31.0
Magnesium (Mg)	1.9	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	5.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		7.3
Color (S.U.)		
Temperature °F (Raw Water)		58.0
Turbidity (S.U.)		0.0

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	25
Carbon Alcohol Extractables (CAE)	60

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WINSTON-SALEM, NORTH CAROLINA
(pop. 111,135)

Ownership PUBLIC Population Served 114 thousand

River Basin SOUTHEAST (Major) YADKIN-PEEDEE RIVER BASIN (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 20 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

February 14 - March 1, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.007
Barium (Ba)	0.03
Bismuth (Bi)	*0.003
Cadmium (Cd)	*0.002
Chromium (Cr)	*0.0007
Cobalt (Co)	*0.01
Copper (Cu)	0.006
Iron (Fe)	0.02
Lead (Pb)	*0.003
Manganese (Mn)	0.003
Molybedenum (Mo)	*0.001
Nickel (Ni)	*0.001
Tin (Sn)	*0.001
Vanadium (V)	*0.001
Zinc (Zn)	*0.3
Beryllium (Be)	*0.00003

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.06	
Arsenic (As)	0.006	
Boron (B)	0.0	
Calcium (Ca)	9.6	18.0
Chlorides (Cl)	5.0	6.0
Fluoride (F)	0.6	0.7
Hardness	32.0	31.0
Magnesium (Mg)	2.0	3.0
Nitrates (NO_3)	0.2	
Selenium (Se)	*0.005	
Sodium (Na)	3.0	
Sulfates (SO_4)	10.0	
Total Dissolved Solids	59.0	
PH		7.5
Color (S.U.)	0.0	0.0
Temperature °F (Raw Water)		61.0
Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	
Beta Activity	
Dissolved	*2.6
Suspended	

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	185
Carbon Alcohol Extractables (CAE)	156

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BISMARCK, NORTH DAKOTA
(pop. 27,670)

Ownership PUBLIC Population Served 29 thousand

River Basin MISSOURI RIVER (Major) CENTRAL MISSOURI (Minor)

Source RIVER Raw Water Capacity Range Unlimited

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 9.5 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

July 18 - August 5, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.03
Barium (Ba)	*0.007
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.003
Cobalt (Co)	*0.007
Copper (Cu)	*0.001
Iron (Fe)	0.01
Lead (Pb)	*0.02
Manganese (Mn)	*0.01
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.007
Tin (Sn)	*0.007
Vanadium (V)	*0.007
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.14	
Calcium (Ca)	14.0	
Chlorides (Cl)	14.0	
Fluoride (F)	1.2	1.2
Hardness	120.0	106.0
Magnesium (Mg)	14.0	
Nitrates (NO_3)	0.4	
Selenium (Se)	*0.01	
Sodium (Na)	50.0	
Sulfates (SO_4)	160.0	
Total Dissolved Solids	467.0	
PH		9.0
Color (S.U.)	0.0	0.0
Temperature °F (Raw Water)		48.0
Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	6.6
Suspended	*1.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	64
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WILLISTON, NORTH DAKOTA
(pop. 11,866)

Ownership PUBLIC Population Served 12 thousand

River Basin MISSOURI RIVER (Major) MISSOURI-SOURIS (Minor)

Source RIVER Raw Water Capacity Range Unlimited

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 6 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 29 - September 13, 1961

Results By Spectographic Analyses — Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.04	ABS	0.05	
Barium (Ba)	0.04	Arsenic (As)	0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.12	
Cadmium (Cd)	*0.01	Calcium (Ca)	22.0	
Chromium (Cr)	*0.004	Chlorides (Cl)		
Cobalt (Co)	*0. 07	Fluoride (F)	0.9	
Copper (Ca)	0.01	Hardness	108.0	
Iron (Fe)	0.1	Magnesium (Mg)	13.0	
Lead (Pb)	*0.02	Nitrates (NO_3)		
Manganese (Mn)	*0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.01	Sodium (Na)	57.0	
Nickel (Ni)	*0.007	Sulfates (SO_4)		
Tin (Sn)	*0.007	Total Dissolved Solids		
Vanadium (V)	*0.007	PH		
Zinc (Zn)	*2.0	Color (S.U.)		
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses — Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity			
Dissolved	14.4	Carbon Chloroform Extractables (CCE)	47
Suspended	1.1	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	12.8		
Suspended	0.7		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

AKRON, OHIO
(pop. 290,351)

Ownership PUBLIC Population Served 300 thousand

River Basin LAKE ERIE (Major) CUYAHOGA (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 65 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

August 18 - September 1, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.02
Bismuth (Bi)	*0.008
Cadmium (Cd)	*0.005
Chromium (Cr)	*0.002
Cobalt (Co)	*0.003
Copper (Cu)	0.005
Iron (Fe)	0.2
Lead (Pb)	*0.008
Manganese (Mn)	0.1
Molybedenum (Mo)	0.003
Nickel (Ni)	*0.003
Tin (Sn)	*0.003
Vanadium (V)	*0.003
Zinc (Zn)	*0.8
Beryllium (Be)	*0.00008

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.07	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	45.0	
Chlorides (Cl)	17.0	
Fluoride (F)	0.3	
Hardness	164.0	128.0
Magnesium (Mg)	13.0	
Nitrates (NO_3)	0.1	
Selenium (Se)	*0.01	
Sodium (Na)	5.0	
Sulfates (SO_4)	34.0	
Total Dissolved Solids	226.0	
PH		8.2
Color (S.U.)	4.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	6.0	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	*3.0
Suspended	3.6

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	109
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CINCINNATI, OHIO
(pop. 502,550)

Ownership PUBLIC Population Served 750 thousand

River Basin OHIO RIVER (Major) OHIO MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 160 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 13 - March 29, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/1		mg/1	mg/1
Antimony (Sb)	*0.02	ABS	0.02	
Barium (Ba)	0.03	Arsenic (As)	0.0	
Bismuth (Bi)	*0.009	Boron (B)	0.04	
Cadmium (Cd)	*0.005	Calcium (Ca)	33.6	46.0
Chromium (Cr)	*0.002	Chlorides (Cl)	12.0	40.0
Cobalt (Co)	*0.003	Fluoride (F)	0.1	0.2
Copper (Ca)	0.002	Hardness	128.0	158.0
Iron (Fe)	0.005	Magnesium (Mg)	10.7	9.0
Lead (Pb)	*0.009	Nitrates (NO_3)	0.7	
Manganese (Mn)	*0.007	Selenium (Se)	0.004	
Molybedenum (Mo)	*0.003	Sodium (Na)	7.0	
Nickel (Ni)	*0.003	Sulfates (SO_4)	80.0	
Tin (Sn)	*0.003	Total Dissolved Solids	191.0	
Vanadium (V)	*0.003	PH		8.4
Zinc (Zn)	*0.9	Color (S.U.)	0.0	
Beryllium (Be)	*0.00009	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	94
Carbon Alcohol Extractables (CAE)	115

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LIMA, OHIO
(pop. 51,037)

Ownership PUBLIC Population Served 58 thousand

River Basin LAKE ERIE (Major) MAUMEE (Minor)

Source STREAM, CREEK Raw Water Capacity Range 1 bil. + gal.

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 13.1mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 16 - March 30, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.005
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	*0.002
Cobalt (Co)	*0.005
Copper (Cu)	*0.0007
Iron (Fe)	0.01
Lead (Pb)	*0.01
Manganese (Mn)	*0.009
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.005
Tin (Sn)	*0.005
Vanadium (V)	*0.005
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.09	
Arsenic (As)	*0.01	
Boron (B)	0.09	
Calcium (Ca)	13.6	
Chlorides (Cl)	15.0	
Fluoride (F)	0.4	
Hardness	108.0	91.0
Magnesium (Mg)	18.0	11.0
Nitrates (NO_3)	1.0	
Selenium (Se)	*0.005	
Sodium (Na)	43.0	
Sulfates (SO_4)	114.0	
Total Dissolved Solids	276.0	
PH		9.5
Color (S.U.)	1.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	4.6
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	41
Carbon Alcohol Extractables (CAE)	173

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SPRINGFIELD, OHIO
(pop. 82,723)

Ownership PUBLIC Population Served 90 thousand

River Basin OHIO RIVER (Major) MIAMI (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment PURIFICATION, DISINFECTION, SOFTENING, IRON & MANGANESE REMOVAL

Design Capacity 36 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 15 - March 30, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.04
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.006
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	0.008
Iron (Fe)	0.02
Lead (Pb)	*0.01
Manganese (Mn)	*0.008
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.004
Tin (Sn)	*0.004
Vanadium (V)	*0.004
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.01	
Arsenic (As)	*0.01	
Boron (B)	0.03	
Calcium (Ca)	25.6	
Chlorides (Cl)	6.0	11.0
Fluoride (F)	0.2	
Hardness	176.0	162.0
Magnesium (Mg)	27.2	23.0
Nitrates (NO_3)	0.1	
Selenium (Se)	*0.005	
Sodium (Na)	5.0	
Sulfates (SO_4)	134.0	
Total Dissolved Solids	239.0	
PH		9.5
Color (S.U.)	1.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	19
Carbon Alcohol Extractables (CAE)	88

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

TOLEDO, OHIO
(pop. 318,003)

Ownership PUBLIC
Population Served 400 thousand

River Basin LAKE ERIE (Major) MAUMEE (Minor)

Source LAKE
Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 120 mgd
% Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

August 17 - September 3, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.009
Barium (Ba)	0.009
Bismuth (Bi)	*0.005
Cadmium (Cd)	*0.003
Chromium (Cr)	*0.0009
Cobalt (Co)	*0.002
Copper (Cu)	0.003
Iron (Fe)	0.04
Lead (Pb)	*0.005
Manganese (Mn)	*0.004
Molybedenum (Mo)	0.006
Nickel (Ni)	*0.002
Tin (Sn)	0.003
Vanadium (V)	0.003
Zinc (Zn)	*0.5
Beryllium (Be)	*0.00005

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.06	
Arsenic (As)	*0.01	
Boron (B)	0.03	
Calcium (Ca)	13.0	
Chlorides (Cl)	18.0	
Fluoride (F)	1.03	1.1
Hardness	72.0	65.0
Magnesium (Mg)	9.7	6.0
Nitrates (NO_3)	0.0	
Selenium (Se)	*0.01	
Sodium (Na)	10.0	
Sulfates (SO_4)	21.0	
Total Dissolved Solids	123.0	
PH		9.6
Color (S.U.)	2.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	1.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	47
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ARDMORE, OKLAHOMA
(pop. 20,184)

Ownership PUBLIC Population Served 20 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) UPPER RED RIVER BASIN (Minor)

Source GROUND WATER SUPPLY- LAKE Raw Water Capacity Range 1-10 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity 6.0 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

February 8 - February 23, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.02
Barium (Ba)	0.05
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	*0.002
Cobalt (Co)	*0.005
Copper (Cu)	0.005
Iron (Fe)	0.02
Lead (Pb)	*0.01
Manganese (Mn)	*0.01
Molybedenum (Mo)	*0.005
Nickel (Ni)	*0.005
Tin (Sn)	*0.005
Vanadium (V)	*0.005
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.01	
Arsenic (As)	*0.01	
Boron (B)	0.04	
Calcium (Ca)	68.0	
Chlorides (Cl)	6.0	
Fluoride (F)	1.2	
Hardness	212.0	191.0
Magnesium (Mg)	9.7	
Nitrates (NO_3)	0.1	
Selenium (Se)	0.0	
Sodium (Na)	3.0	
Sulfates (SO_4)	22.0	
Total Dissolved Solids	212.0	
PH		8.2
Color (S.U.)	1.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.8	

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	
Beta Activity	
Dissolved	*2.6
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	44
Carbon Alcohol Extractables (CAE)	127

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

OKLAHOMA CITY, OKLAHOMA
(pop. 324,253)
LAKE HEFNER WATER TREATMENT PLANT

Ownership PUBLIC Population Served 310 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) NORTH CANADIAN RIVER BASIN (Minor)

Source GROUND WATER SUPPLY-IMPOUNDED RESERVOIR Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 45 mgd % Municipal Supply Furnished By Plant 60

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

February 9 - February 25, 1961

Results By
Spectographic Analyses

Results By
Chemical And Physical Analyses(1)

	mg/1		mg/1	mg/1
Antimony (Sb)	*0.04	ABS	0.04	
Barium (Ba)	0.08	Arsenic (As)	0.006	
Bismuth (Bi)	*0.02	Boron (B)	0.12	
Cadmium (Cd)	*0.01	Calcium (Ca)	31.2	
Chromium (Cr)	*0.004	Chlorides (Cl)	105.0	
Cobalt (Co)	*0.008	Fluoride (F)	0.8	
Copper (Cu)	0.004	Hardness	140.0	
Iron (Fe)	0.03	Magnesium (Mg)	15.1	
Lead (Pb)	*0.02	Nitrates (NO_3)	0.1	
Manganese (Mn)	*0.02	Selenium (Se)	0.0	
Molybedenum (Mo)	0.02	Sodium (Na)	78.0	
Nickel (Ni)	0.08	Sulfates (SO_4)	129.0	
Tin (Sn)	*0.008	Total Dissolved Solids	401.0	
Vanadium (V)	*0.008	PH		
Zinc (Zn)	*2.0	Color (S.U.)	1.0	
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By
Radiochemical Analyses

Results By
Carbon Adsorption Method (CAM)

	uuc/1		ppb
Alpha Activity		Carbon Chloroform Extractables (CCE)	61
Dissolved	6.0	Carbon Alcohol Extractables (CAE)	188
Suspended			
Beta Activity			
Dissolved	5.7		
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

OKLAHOMA CITY, OKLAHOMA
(pop. 324,253)
LAKE OVERHOLSER WATER TREATMENT PLANT

Ownership PUBLIC Population Served 310 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) NORTH CANADIAN RIVER BASIN (Minor)

IMPOUNDED
Source GROUND WATER SUPPLY-RESERVOIR Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION, DISINFECTION, & SOFTENING

Design Capacity 24 mgd % Municipal Supply Furnished By Plant 40

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 25 - June 8, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.06	ABS	0.04	
Barium (Ba)	0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.03	Boron (B)	0.2	
Cadmium (Cd)	*0.02	Calcium (Ca)	45.0	
Chromium (Cr)	*0.006	Chlorides (Cl)	132.0	
Cobalt (Co)	*0.01	Fluoride (F)	1.12	
Copper (Cu)	*0.002	Hardness	180.0	
Iron (Fe)	0.1	Magnesium (Mg)	16.0	
Lead (Pb)	*0.03	Nitrates (NO_3)	0.2	
Manganese (Mn)	*0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.01	Sodium (Na)	80.0	
Nickel (Ni)	*0.01	Sulfates (SO_4)	180.0	
Tin (Sn)	*0.01	Total Dissolved Solids	529.0	
Vanadium (V)	*0.01	PH		
Zinc (Zn)	*3.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0003	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.8	

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	36
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	6.2		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ALLENTOWN, PENNSYLVANIA
(pop. 108,347)

Ownership PUBLIC   Population Served 112 thousand

River Basin NORTH ATLANTIC (Major)   DELAWARE RIVER BASIN- LEHIGH (Minor)

Source RIVER   Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 40 mgd   % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

June 1 - June 15, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.03	ABS	0.02	
Barium (Ba)	*0.006	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.04	
Cadmium (Cd)	*0.009	Calcium (Ca)	43.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	6.5	
Cobalt (Co)	*0.006	Fluoride (F)	0.13	
Copper (Cu)	*0.0009	Hardness	188.0	
Iron (Fe)	0.02	Magnesium (Mg)	20.4	
Lead (Pb)	*0.02	Nitrates (NO_3)	13.3	
Manganese (Mn)	*0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.006	Sodium (Na)	3.5	
Nickel (Ni)	*0.006	Sulfates (SO_4)	26.6	
Tin (Sn)	0.006	Total Dissolved Solids	220.0	
Vanadium (V)	*0.006	PH		7.6
Zinc (Zn)	*2.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	20
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LANCASTER, PENNSYLVANIA
(pop. 61,055)
CONESTOGA PLANT

Ownership PUBLIC Population Served 90 thousand

River Basin NORTH ATLANTIC (Major) SUSQUEHANNA RIVER BASIN-MAIN STEM (Minor)

Source STREAM OR CREEK Raw Water Capacity Range

Treatment PURIFICATION & DISINFECTION

Design Capacity 16 mgd % Municipal Supply Furnished By Plant 60%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 13 - July 27, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.03	ABS	0.13	
Barium (Ba)	0.08	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.08	
Cadmium (Cd)	*0.008	Calcium (Ca)	50.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	15.0	
Cobalt (Co)	*0.005	Fluoride (F)	0.62	
Copper (Cu)	0.01	Hardness	176.0	135.0
Iron (Fe)	0.03	Magnesium (Mg)	12.0	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.4	
Manganese (Mn)	0.01	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.01	Sodium (Na)	4.5	
Nickel (Ni)	*0.005	Sulfates (SO_4)	52.0	
Tin (Sn)	0.008	Total Dissolved Solids	225.0	
Vanadium (V)	*0.005	PH		7.0
Zinc (Zn)	*1.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	99
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	3.3		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LANCASTER, PENNSYLVANIA
(pop. 61,055)
SUSQUEHANNA PLANT TAP

Ownership PUBLIC Population Served 90 thousand

River Basin NORTH ATLANTIC (Major) SUSQUEHANNA RIVER BASIN-MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 8 mgd % Municipal Supply Furnished By Plant 40%

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

August 29 - September 12, 1961

Results By Spectographic Analyses | Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.05	ABS	0.08	
Barium (Ba)	0.01	Arsenic (As)	0.01	
Bismuth (Bi)	*0.03	Boron (B)	0.08	
Cadmium (Cd)	*0.02	Calcium (Ca)	42.0	
Chromium (Cr)	*0.005	Chlorides (Cl)	9.0	
Cobalt (Co)	*0.01	Fluoride (F)	0.19	
Copper (Cu)	0.01	Hardness	140.0	98.5
Iron (Fe)	0.03	Magnesium (Mg)	8.3	
Lead (Pb)	*0.03	Nitrates (NO_3)	0.6	
Manganese (Mn)	*0.02	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.01	Sodium (Na)	8.5	
Nickel (Ni)	*0.01	Sulfates (SO_4)	74.0	
Tin (Sn)	*0.01	Total Dissolved Solids	360.0	
Vanadium (V)	*0.01	PH		7.8
Zinc (Zn)	*3.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0003	Temperature °F (Raw Water)		
		Turbidity (S.U.)	15.0	

Results By Radiochemical Analyses | Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	36
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHILADELPHIA, PENNSYLVANIA
(pop. 2,002,512)
BELMONT (RAPID SAND FILTER)

Ownership Public Population Served - thousand

River Basin North Atlantic (Major) Delaware River Basin -Schuylkill (Minor)

Source River Raw Water Capacity Range 10-100 mg.

Treatment Purification, Disinfection, Iron & Manganese Removal

Design Capacity - mgd % Municipal Supply Furnished By Plant -

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 9 - August 25, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.04
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.006
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	0.03
Iron (Fe)	0.2
Lead (Pb)	0.02
Manganese (Mn)	*0.009
Molybedenum (Mo)	*0.004
Nickel (Ni)	0.01
Tin (Sn)	0.004
Vanadium (V)	*0.004
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.18	
Arsenic (As)	*0.01	
Boron (B)	0.0	
Calcium (Ca)	38.0	
Chlorides (Cl)	22.8	
Fluoride (F)	0.95	
Hardness	164.0	
Magnesium (Mg)	16.0	
Nitrates (NO_3)	1.5	
Selenium (Se)	*0.01	
Sodium (Na)	11.0	
Sulfates (SO_4)	103.9	
Total Dissolved Solids	301.0	
PH		
Color (S.U.)	2.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.2	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	3.1
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	223
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHILADELPHIA, PENNSYLVANIA
(pop. 2,002,512)
BELMONT (RAPID & SLOW FILTERS)

Ownership PUBLIC Population Served 400 thousand

River Basin NORTH ATLANTIC (Major) DELAWARE RIVER BASIN - SCHUYKILL (Minor)

Source RIVER Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION, DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 72 mgd % Municipal Supply Furnished By Plant 20

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

August 7 - August 23, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.05	
Barium (Ba)	0.04	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.07	
Cadmium (Cd)	*0.006	Calcium (Ca)	35.0	
Chromium (Cr)	*0.002	Chlorides (Cl)	20.0	
Cobalt (Co)	*0.004	Fluoride (F)	1.0	
Copper (Cu)	0.2	Hardness	160.0	
Iron (Fe)	0.01	Magnesium (Mg)	17.0	
Lead (Pb)	*0.01	Nitrates (NO_3)	1.6	
Manganese (Mn)	*0.008	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.004	Sodium (Na)	10.0	
Nickel (Ni)	0.006	Sulfates (SO_4)	97.7	
Tin (Sn)	*0.004	Total Dissolved Solids	294.0	
Vanadium (V)	*0.004	PH		
Zinc (Zn)	*1.0	Color (S.U.)	4.0	
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		59
		Turbidity (S.U.)	0.2	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	123
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHILADELPHIA, PENNSYLVANIA
(pop. 2,002,512)
QUEEN LANE PLANT TAP

Ownership PUBLIC Population Served 600 thousand

River Basin NORTH ATLANTIC (Major) DELAWARE RIVER BASIN - SCHUYLKILL (Minor)

Source RIVER Raw Water Capacity Range 100 mil. - 1 bil. gal.

Treatment PURIFICATION, DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 150 mgd % Municipal Supply Furnished By Plant 30

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

July 25 - August 9, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.02	ABS	0.22	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.08	
Cadmium (Cd)	*0.006	Calcium (Ca)	28.0	
Chromium (Cr)	*0.002	Chlorides (Cl)		
Cobalt (Co)	*0.004	Fluoride (F)	1.06	
Copper (Cu)	0.06	Hardness	128.0	
Iron (Fe)	0.04	Magnesium (Mg)	14.0	
Lead (Pb)	*0.01	Nitrates (NO_3)		
Manganese (Mn)	*0.008	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.004	Sodium (Na)	8.5	
Nickel (Ni)	0.006	Sulfates (SO_4)		
Tin (Sn)	*0.004	Total Dissolved Solids		
Vanadium (V)	*0.004	PH		
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature $^{\circ}$F (Raw Water)		59.0
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	267
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	5.6		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PHILADELPHIA, PENNSYLVANIA
(pop. 2,002,512)
TORRESDALE PLANT

Ownership PUBLIC Population Served 1,000 thousand

River Basin NORTH ATLANTIC (Major) DELAWARE RIVER BASIN - ZONE 2 (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION, IRON & MANGANESE REMOVAL

Design Capacity 282 mgd % Municipal Supply Furnished By Plant 50

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

January 30 - February 14, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.2	
Barium (Ba)	0.02	Arsenic (As)	0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.07	
Cadmium (Cd)	*0.007	Calcium (Ca)	31.2	17.0
Chromium (Cr)	*0.002	Chlorides (Cl)	24.0	11.0
Cobalt (Co)	*0.004	Fluoride (F)	1.2	
Copper (Cu)	0.01	Hardness	108.0	86.0
Iron (Fe)	0.07	Magnesium (Mg)	7.3	0.75
Lead (Pb)	*0.01	Nitrates (NO_3)	0.5	
Manganese (Mn)	0.1	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.009	Sodium (Na)	8.0	
Nickel (Ni)	0.007	Sulfates (SO_4)	44.0	
Tin (Sn)	*0.004	Total Dissolved Solids	182.0	
Vanadium (V)	0.004	PH		7.6
Zinc (Zn)	*1.0	Color (S.U.)	2.0	2.0
Beryllium (Be)	*0.0001	Temperature ^{o}F (Raw Water)		57.0
		Turbidity (S.U.)	0.1	0.0

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	94
Suspended		Carbon Alcohol Extractables (CAE)	231
Beta Activity			
Dissolved	*2.6		
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SAYRE, PENNSYLVANIA
(pop. 7,917)

Ownership PRIVATE Population Served 8.5 thousand

River Basin NORTH ATLANTIC (Major) SUSQUEHANNA RIVER BASIN-NORTH BRANCH (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 4 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

July 2 - July 16, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.02
Bismuth (Bi)	*0.009
Cadmium (Cd)	*0.005
Chromium (Cr)	0.004
Cobalt (Co)	*0.004
Copper (Cu)	0.007
Iron (Fe)	0.1
Lead (Pb)	*0.009
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.004
Nickel (Ni)	*0.004
Tin (Sn)	0.004
Vanadium (V)	*0.004
Zinc (Zn)	*0.9
Beryllium (Be)	*0.00009

Results by
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.04	
Arsenic (As)	*0.01	
Boron (B)	0.07	
Calcium (Ca)	30.0	
Chlorides (Cl)	9.0	
Fluoride (F)	0.11	
Hardness	100.0	100.0
Magnesium (Mg)	6.3	
Nitrates (NO_3)	0.0	
Selenium (Se)	*0.01	
Sodium (Na)	5.0	
Sulfates (SO_4)	31.0	
Total Dissolved Solids	210.0	
PH		8.1
Color (S.U.)	0.0	0.0
Temperature °F (Raw Water)		54.0
Turbidity (S.U.)	45.0	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	88
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CHARLESTON, SOUTH CAROLINA
(65,925)

Ownership Public Population Served 160 thousand

River Basin Edisto (Major) - (Minor)

Source River Raw Water Capacity Range Unlimited

Treatment Purification, Disinfection

Design Capacity 24 mgd % Municipal Supply Furnished By Plant 100%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 10 - January 25, 1961

Results By Spectographic Analyses — Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.004	ABS	0.04	
Barium (Ba)	0.04	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.002	Boron (B)	0.04	
Cadmium (Cd)	*0.001	Calcium (Ca)	6.4	
Chromium (Cr)	*0.0004	Chlorides (Cl)		
Cobalt (Co)	*0.0009	Fluoride (F)	0.2	
Copper (Cu)	0.03	Hardness	40.0	
Iron (Fe)	0.01	Magnesium (Mg)	5.8	
Lead (Pb)	0.02	Nitrates (NO_3)		
Manganese (Mn)	0.004	Selenium (Se)	0.0	
Molybedenum (Mo)	*0.0009	Sodium (Na)	9.5	
Nickel (Ni)	0.003	Sulfates (SO_4)		
Tin (Sn)	*0.0009	Total Dissolved Solids		
Vanadium (V)	*0.0009	PH		
Zinc (Zn)	*0.2	Color (S.U.)		
Beryllium (Be)	*0.00002	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses — Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	92
Suspended		Carbon Alcohol Extractables (CAE)	166
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

GREENVILLE, SOUTH CAROLINA
(pop. 66,188)

Ownership PUBLIC Population Served 165 thousand

River Basin SOUTHEAST (Major) CONGAREE RIVER BASIN (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range 1 bil. + gal.

Treatment DISINFECTION

Design Capacity 49 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 12 - January 27, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.003
Barium (Ba)	0.01
Bismuth (Bi)	*0.002
Cadmium (Cd)	*0.001
Chromium (Cr)	*0.0003
Cobalt (Co)	*0.0007
Copper (Cu)	0.002
Iron (Fe)	0.02
Lead (Pb)	*0.002
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.0007
Nickel (Ni)	0.001
Tin (Sn)	*0.0007
Vanadium (V)	*0.0007
Zinc (Zn)	*0.2
Beryllium (Be)	*0.00002

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	3.2	
Chlorides (Cl)		
Fluoride (F)	0.1	
Hardness	28.0	
Magnesium (Mg)	4.8	
Nitrates (NO_3)		
Selenium (Se)	0.004	
Sodium (Na)	4.5	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*2.6
Suspended	*2.6

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	19
Carbon Alcohol Extractables (CAE)	66

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

ABERDEEN, SOUTH DAKOTA
(pop. 23,073)

Ownership PUBLIC Population Served 23,073 thousand

River Basin MISSOURI RIVER (Major) JAMES (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 8 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 28 - September 12, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.06	
Barium (Ba)	0.07	Arsenic (As)	0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.12	
Cadmium (Cd)	*0.007	Calcium (Ca)	10.0	
Chromium (Cr)	*0.002	Chlorides (Cl)	34.0	
Cobalt (Co)	*0.004	Fluoride (F)	1.04	
Copper (Cu)	0.01	Hardness	44.0	
Iron (Fe)	0.02	Magnesium (Mg)	4.4	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.1	
Manganese (Mn)	*0.009	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.009	Sodium (Na)	55.3	
Nickel (Ni)	*0.004	Sulfates (SO_4)	83.1	
Tin (Sn)	*0.004	Total Dissolved Solids	272.0	
Vanadium (V)	*0.004	PH		
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		50.0
		Turbidity (S.U.)		

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	51
Suspended	9.4	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	15.3		
Suspended	3.8		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SALT LAKE CITY, UTAH
(pop. 189,454)
CITY CREEK PLANT

Ownership PUBLIC

Population Served 275 thousand

River Basin GREAT BASIN (Major) GREAT SALT LAKE (Minor)

Source STREAM OR CREEK

Raw Water Capacity Range Unlimited

Treatment PURIFICATION & DISINFECTION

Design Capacity 15 mgd

% Municipal Supply Furnished By Plant 10

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

March 22 - April 5, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)	*0.03	ABS	*0.01	
Barium (Ba)	0.06	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.0	
Cadmium (Cd)	*0.009	Calcium (Ca)	56.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	11.0	
Cobalt (Co)	*0.006	Fluoride (F)	0.14	
Copper (Cu)	0.009	Hardness	212.0	209.0
Iron (Fe)	0.06	Magnesium (Mg)	17.5	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.3	
Manganese (Mn)	*0.01	Selenium (Se)	*0.005	
Molybedenum (Mo)	*0.006	Sodium (Na)	3.5	
Nickel (Ni)	*0.006	Sulfates (SO_4)	13.0	
Tin (Sn)	*0.006	Total Dissolved Solids	239.0	
Vanadium (V)	*0.006	PH		8.4
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	17
Carbon Alcohol Extractables (CAE)	56

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SALT LAKE CITY, UTAH
(pop. 189,454)
BIG COTTONWOOD TREATMENT PLANT

Ownership PUBLIC Population Served 275 thousand

River Basin GREAT BASIN (Major) GREAT SALT LAKE (Minor)

Source STREAM OR CREEK Raw Water Capacity Range 10-100 mg.

Treatment PURIFICATION & DISINFECTION

Design Capacity 32 mgd % Municipal Supply Furnished By Plant 32

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

March 21 - April 22, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	*0.01	
Barium (Ba)	0.05	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.0	
Cadmium (Cd)	*0.007	Calcium (Ca)	42.4	
Chromium (Cr)	*0.002	Chlorides (Cl)	17.0	
Cobalt (Co)	*0.005	Fluoride (F)	0.2	
Copper (Cu)	0.0007	Hardness	172.0	154.0
Iron (Fe)	0.02	Magnesium (Mg)	16.0	
Lead (Pb)	*0.01	Nitrates (NO_3)	0.3	
Manganese (Mn)	*0.01	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.01	Sodium (Na)	5.5	
Nickel (Ni)	*0.005	Sulfates (SO_4)	48.0	
Tin (Sn)	*0.005	Total Dissolved Solids	212.0	
Vanadium (V)	*0.005	PH		8.2
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		42.0
		Turbidity (S.U.)		0.2

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	11
Suspended		Carbon Alcohol Extractables (CAE)	74
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SALT LAKE CITY, UTAH
(pop. 189,454)
LITTLE COTTONWOOD TREATMENT PLANT

Ownership PUBLIC Population Served 275 thousand

River Basin GREAT BASIN (Major) GREAT SALT LAKE (Minor)

Source STREAM OR CREEK, RESERVOIR Raw Water Capacity Range 1 bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 100 mgd % Municipal Supply Furnished By Plant 44

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 23 - April 10, 1961

Results By Spectographic Analyses	mg/1	Results By Chemical And Physical Analyses(1)	mg/1	mg/1
Antimony (Sb)		ABS	*0.01	
Barium (Ba)		Arsenic (As)	*0.01	
Bismuth (Bi)		Boron (B)	3.0	
Cadmium (Cd)		Calcium (Ca)	53.6	
Chromium (Cr)		Chlorides (Cl)	15.0	
Cobalt (Co)		Fluoride (F)	0.3	
Copper (Cu)		Hardness	176.0	152.0
Iron (Fe)		Magnesium (Mg)	10.2	
Lead (Pb)		Nitrates (NO_3)	0.3	
Manganese (Mn)		Selenium (Se)	*0.005	
Molybedenum (Mo)		Sodium (Na)	7.0	
Nickel (Ni)		Sulfates (SO_4)	70.0	
Tin (Sn)		Total Dissolved Solids	237.0	
Vanadium (V)		PH		6.8
Zinc (Zn)		Color (S.U.)		0.1
Beryllium (Be)		Temperature °F (Raw Water)		30.0
		Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses	uuc/1	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	30
Suspended		Carbon Alcohol Extractables (CAE)	78
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SALT LAKE CITY, UTAH
(pop. 189,454)
FIFTEENTH EAST & FIFTH SOUTH WELL

Ownership PUBLIC Population Served 275 thousand

River Basin GREAT BASIN (Major) GREAT SALT LAKE (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range -

Treatment

Design Capacity 3 mgd % Municipal Supply Furnished By Plant 5%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

March 22 - April 5, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.01
Bismuth (Bi)	*0.009
Cadmium (Cd)	0.01
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	0.05
Iron (Fe)	0.05
Lead (Pb)	*0.009
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.004
Nickel (Ni)	0.1
Tin (Sn)	*0.004
Vanadium (V)	*0.004
Zinc (Zn)	*0.9
Beryllium (Be)	*0.00009

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	*0.01	
Arsenic (As)	*0.01	
Boron (B)	0.02	
Calcium (Ca)	92.8	
Chlorides (Cl)	41.0	
Fluoride (F)	0.3	
Hardness	388.0	
Magnesium (Mg)	37.9	
Nitrates (NO_3)	0.5	
Selenium (Se)	*0.005	
Sodium (Na)	16.5	
Sulfates (SO_4)	136.0	
Total Dissolved Solids	476.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.0	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	7
Carbon Alcohol Extractables (CAE)	54

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SALT LAKE CITY, UTAH
(pop. 189,454)
THIRD EAST PUMPING PLANT

Ownership PUBLIC Population Served 275 thousand

River Basin GREAT BASIN (Major) GREAT SALT LAKE (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 15 mgd % Municipal Supply Furnished By Plant 9%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 21 - April 5, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.04	ABS	*0.01	
Barium (Ba)	0.09	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.0	
Cadmium (Cd)	*0.01	Calcium (Ca)	60.8	
Chromium (Cr)	*0.004	Chlorides (Cl)	40.0	
Cobalt (Co)	*0.009	Fluoride (F)	0.4	
Copper (Cu)	0.02	Hardness	256.0	
Iron (Fe)	0.04	Magnesium (Mg)	25.2	
Lead (Pb)	*0.02	Nitrates (NO_3)	0.7	
Manganese (Mn)	*0.02	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.02	Sodium (Na)	20.0	
Nickel (Ni)	*0.009	Sulfates (SO_4)	71.0	
Tin (Sn)	*0.009	Total Dissolved Solids	353.0	
Vanadium (V)	*0.009	PH		
Zinc (Zn)	*2.0	Color (S.U.)		
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity		Carbon Chloroform Extractables (CCE)	14
Dissolved		Carbon Alcohol Extractables (CAE)	55
Suspended			
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CORPUS CHRISTI, TEXAS
(pop. 167,690)
CUNNINGHAM PLANT

Ownership PUBLIC Population Served 198 thousand

River Basin WESTERN GULF (Major) NUECES RIVER (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION, SOFTENING, IRON & MANGANESE REMOVAL

Design Capacity 33 mgd % Municipal Supply Furnished By Plant 33

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

March 28 - April 13, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/1		mg/1	mg/1
Antimony (Sb)	*0.04	ABS	0.03	
Barium (Ba)	0.1	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.13	
Cadmium (Cd)	*0.01	Calcium (Ca)	43.2	61.0
Chromium (Cr)	*0.004	Chlorides (Cl)	86.0	75.0
Cobalt (Co)	*0.008	Fluoride (F)	1.1	0.8
Copper (Cu)	0.02	Hardness	144.0	145.0
Iron (Fe)	0.2	Magnesium (Mg)	8.7	8.0
Lead (Pb)	*0.02	Nitrates (NO_3)	*0.4	
Manganese (Mn)	*0.02	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.02	Sodium (Na)	59.0	
Nickel (Ni)	*0.008	Sulfates (SO_4)	42.0	
Tin (Sn)	*0.008	Total Dissolved Solids	307.0	
Vanadium (V)	*0.008	PH		8.1
Zinc (Zn)	*2.0	Color (S.U.)		
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		74.0
		Turbidity (S.U.)		0.0

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/1		ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	77
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	167
Beta Activity			
Dissolved	5.6		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CORPUS CHRISTI, TEXAS
(pop. 167,690)
STEVENS WATER TREATMENT PLANT

Ownership PUBLIC Population Served 198 thousand

River Basin WESTERN GULF (Major) NUECES RIVER (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION, SOFTENING, IRON & MANGANESE REMOVAL

Design Capacity 48 mgd % Municipal Supply Furnished By Plant 67

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 5 - April 19, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.03
Barium (Ba)	0.05
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.008
Chromium (Cr)	*0.003
Cobalt (Co)	*0.005
Copper (Cu)	0.001
Iron (Fe)	0.01
Lead (Pb)	*0.01
Manganese (Mn)	0.2
Molybedenum (Mo)	0.008
Nickel (Ni)	*0.005
Tin (Sn)	*0.005
Vanadium (V)	*0.005
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.2	
Calcium (Ca)	34.0	50.0
Chlorides (Cl)	102.0	
Fluoride (F)	1.03	0.8
Hardness	116.0	133.0
Magnesium (Mg)	7.3	8.0
Nitrates (NO_3)	0.4	
Selenium (Se)	*0.01	
Sodium (Na)	48.0	
Sulfates (SO_4)	47.0	
Total Dissolved Solids	378.0	
PH		8.4
Color (S.U.)		
Temperature °F (Raw Water)		73.0
Turbidity (S.U.)		0.0

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	6.2
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	96
Carbon Alcohol Extractables (CAE)	167

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BROWNSVILLE, TEXAS
(pop. 48,040
WATER TREATMENT PLANT # 2

Ownership PUBLIC Population Served 49 thousand

River Basin WESTERN GULF (Major) RIO GRANDE (LOWER) (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 10 mgd % Municipal Supply Furnished By Plant 50%

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

March 29 - April 12, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.08
Barium (Ba)	0.07
Bismuth (Bi)	*0.04
Cadmium (Cd)	*0.03
Chromium (Cr)	*0.008
Cobalt (Co)	*0.02
Copper (Cu)	0.003
Iron (Fe)	0.04
Lead (Pb)	*0.04
Manganese (Mn)	20.0
Molybedenum (Mo)	0.03
Nickel (Ni)	*0.02
Tin (Sn)	*0.02
Vanadium (V)	*0.02
Zinc (Zn)	*4.0
Beryllium (Be)	*0.0004

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.4	
Calcium (Ca)	88.0	
Chlorides (Cl)	214.0	244.0
Fluoride (F)	0.9	
Hardness	328.0	189.0
Magnesium (Mg)	26.0	
Nitrates (NO_3)	*0.4	
Selenium (Se)	*0.01	
Sodium (Na)	143.0	
Sulfates (SO_4)	251.0	
Total Dissolved Solids	912.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		82.0
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	3.1
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	65
Carbon Alcohol Extractables (CAE)	181

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BROWNWOOD, TEXAS
(pop. 16,974)

Ownership PUBLIC Population Served 18 thousand

River Basin WESTERN GULF (Major) COLORADO (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 8 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 24 - May 9, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.9
Bismuth (Bi)	*0.008
Cadmium (Cd)	*0.005
Chromium (Cr)	*0.002
Cobalt (Co)	*0.003
Copper (Cu)	0.0005
Iron (Fe)	0.03
Lead (Pb)	*0.008
Manganese (Mn)	*0.006
Molybedenum (Mo)	0.005
Nickel (Ni)	*0.003
Tin (Sn)	*0.003
Vanadium (V)	*0.003
Zinc (Zn)	*0.8
Beryllium (Be)	*0.00008

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.07	
Calcium (Ca)	44.0	
Chlorides (Cl)	69.0	47.0
Fluoride (F)	0.23	
Hardness	160.0	117.0
Magnesium (Mg)	12.0	
Nitrates (NO_3)	0.4	
Selenium (Se)	*0.01	
Sodium (Na)	25.0	
Sulfates (SO_4)	24.0	
Total Dissolved Solids	270.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		65.0
Turbidity (S.U.)		0.2

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	7.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	91
Carbon Alcohol Extractables (CAE)	253

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

GALVESTON, TEXAS
(pop. 67,175)

Ownership PUBLIC
Population Served 71 thousand

River Basin WESTERN GULF (Major) TRINITY & SAN JACINTO (Minor)

Source GROUND WATER SUPPLY
Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 17.5 mgd
% Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES

OF A COMPOSITE SAMPLE OF FINISHED WATER

July 18 - August 3, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	*0.1	ABS	0.06	
Barium (Ba)	0.5	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.05	Boron (B)	0.3	
Cadmium (Cd)	*0.03	Calcium (Ca)	30.0	
Chromium (Cr)	*0.01	Chlorides (Cl)		
Cobalt (Co)	*0.02	Fluoride (F)	1.0	
Copper (Cu)	0.01	Hardness	120.0	
Iron (Fe)	0.1	Magnesium (Mg)	11.2	
Lead (Pb)	*0.05	Nitrates (NO_3)		
Manganese (Mn)	0.08	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.02	Sodium (Na)	275.0	
Nickel (Ni)	*0.02	Sulfates (SO_4)		
Tin (Sn)	0.03	Total Dissolved Solids		
Vanadium (V)	*0.02	PH		
Zinc (Zn)	*5.0	Color (S.U.)		
Beryllium (Be)	*0.0005	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	22
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1) NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LAREDO, TEXAS
(pop. 60,678)

Ownership PUBLIC Population Served 60 thousand

River Basin WESTERN GULF (Major) RIO GRANDE (LOWER) (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 19 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

April 26 - May 25, 1961

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.06
Barium (Ba)	3.0
Bismuth (Bi)	*0.03
Cadmium (Cd)	*0.02
Chromium (Cr)	*0.006
Cobalt (Co)	*0.01
Copper (Cu)	*0.002
Iron (Fe)	0.02
Lead (Pb)	*0.03
Manganese (Mn)	0.03
Molybedenum (Mo)	0.01
Nickel (Ni)	*0.01
Tin (Sn)	*0.01
Vanadium (V)	*0.01
Zinc (Zn)	*3.0
Beryllium (Be)	*0.0003

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.2	
Calcium (Ca)	76.0	78.0
Chlorides (Cl)	154.0	130.0
Fluoride (F)	0.93	
Hardness	292.0	261.0
Magnesium (Mg)	24.0	15.0
Nitrates (NO_3)	2.4	
Selenium (Se)	*0.01	
Sodium (Na)	88.0	
Sulfates (SO_4)	182.0	
Total Dissolved Solids	744.0	
PH		7.7
Color (S.U.)		
Temperature °F (Raw Water)		72.0
Turbidity (S.U.)		0.0

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	4.3
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	73
Carbon Alcohol Extractables (CAE)	94

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LUBBOCK, TEXAS
(pop. 128,691)

Ownership PUBLIC Population Served 128 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) SOUTH CANADIAN RIVER BASIN (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 72 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

February 28 - March 16, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.08	ABS	*0.01	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.04	Boron (B)	0.43	
Cadmium (Cd)	*0.03	Calcium (Ca)	67.2	
Chromium (Cr)	*0.01	Chlorides (Cl)	111.0	
Cobalt (Co)	*0.02	Fluoride (F)	2.5	
Copper (Cu)	0.6	Hardness	456.0	
Iron (Fe)	0.2	Magnesium (Mg)	70.0	
Lead (Pb)	*0.04	Nitrates (NO_3)	7.3	
Manganese (Mn)	*0.03	Selenium (Se)	*0.005	
Molybedenum (Mo)	0.1	Sodium (Na)	82.5	
Nickel (Ni)	*0.02	Sulfates (SO_4)	229.0	
Tin (Sn)	*0.02	Total Dissolved Solids	842.0	
Vanadium (V)	0.03	PH		
Zinc (Zn)	*4.0	Color (S.U.)		
Beryllium (Be)	*0.0004	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	12
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	84
Beta Activity			
Dissolved	12.8		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PORT ARTHUR, TEXAS
(pop. 66,676)

Ownership PUBLIC Population Served 90 thousand

River Basin WESTERN GULF (Major) NECHES RIVER (Minor)

Source IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 11 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 19 - August 2, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/1		mg/1	mg/1
Antimony (Sb)	*0.02	ABS	0.02	
Barium (Ba)	0.05	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.009	Boron (B)	0.08	
Cadmium (Cd)	*0.005	Calcium (Ca)	21.0	
Chromium (Cr)	*0.002	Chlorides (Cl)		
Cobalt (Co)	*0.003	Fluoride (F)	1.0	1.1
Copper (Cu)	0.05	Hardness	72.0	55.0
Iron (Fe)	0.07	Magnesium (Mg)	4.9	
Lead (Pb)	*0.009	Nitrates (NO_3)		
Manganese (Mn)	0.1	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.003	Sodium (Na)	14.0	
Nickel (Ni)	*0.003	Sulfates (SO_4)		
Tin (Sn)	0.005	Total Dissolved Solids		
Vanadium (V)	*0.003	PH		8.3
Zinc (Zn)	*0.9	Color (S.U.)		0.0
Beryllium (Be)	*0.00009	Temperature °F (Raw Water)		72.0
		Turbidity (S.U.)		0.0

Results By Radiochemical Analyses		Results By Carbon Adsorption Method (CAM)	
	uuc/1		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	51
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	3.5		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SAN ANGELO, TEXAS
(pop. 58,815)

Ownership PUBLIC Population Served 60 thousand

River Basin WESTERN GULF (Major) COLORADO (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 22 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

April 25 - May 9, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.09
Barium (Ba)	0.3
Bismuth (Bi)	*0.05
Cadmium (Cd)	*0.03
Chromium (Cr)	*0.009
Cobalt (Co)	*0.02
Copper (Cu)	0.009
Iron (Fe)	0.03
Lead (Pb)	*0.05
Manganese (Mn)	*0.04
Molybedenum (Mo)	*0.02
Nickel (Ni)	*0.02
Tin (Sn)	*0.02
Vanadium (V)	*0.02
Zinc (Zn)	*5.0
Beryllium (Be)	*0.0005

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.3	
Calcium (Ca)	87.0	
Chlorides (Cl)	295.0	159.0
Fluoride (F)	0.92	
Hardness	408.0	346.0
Magnesium (Mg)	46.0	
Nitrates (NO_3)	2.1	
Selenium (Se)	*0.01	
Sodium (Na)	143.0	
Sulfates (SO_4)	129.0	
Total Dissolved Solids	984.0	
PH		7.5
Color (S.U.)		
Temperature °F (Raw Water)		60.0
Turbidity (S.U.)		1.0

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	111
Carbon Alcohol Extractables (CAE)	362

(1) NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SAN ANTONIO, TEXAS
(pop. 587,718)

Ownership PUBLIC Population Served 517 thousand

River Basin --- (Major) --- (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range ----

Treatment DISINFECTION

Design Capacity 323 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

February 21 - March 10, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.01	
Barium (Ba)	0.02	Arsenic (As)	0.01	
Bismuth (Bi)	*0.01	Boron (B)	0.09	
Cadmium (Cd)	*0.007	Calcium (Ca)	71.0	
Chromium (Cr)	*0.002	Chlorides (Cl)	8.0	
Cobalt (Co)	*0.004	Fluoride (F)	0.2	
Copper (Cu)	0.02	Hardness	252.0	
Iron (Fe)	0.02	Magnesium (Mg)	18.0	
Lead (Pb)	*0.01	Nitrates (NO_3)	3.1	
Manganese (Mn)	*0.009	Selenium (Se)	*0.005	
Molybedenum (Mo)	*0.004	Sodium (Na)	6.5	
Nickel (Ni)	0.01	Sulfates (SO_4)	27.0	
Tin (Sn)	*0.004	Total Dissolved Solids		
Vanadium (V)	*0.004	PH		
Zinc (Zn)	*1.0	Color (S.U.)		
Beryllium (Be)	*0.0001	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	25
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	42
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WACO, TEXAS
(pop. 97,805)

Ownership PUBLIC Population Served 100 thousand

River Basin WESTERN GULF (Major) BRAZOS (Minor)

Source RIVER, LAKE Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 30 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 25 - June 9, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.04
Barium (Ba)	0.08
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.004
Cobalt (Co)	*0.008
Copper (Cu)	0.004
Iron (Fe)	0.03
Lead (Pb)	*0.02
Manganese (Mn)	*0.02
Molybedenum (Mo)	*0.008
Nickel (Ni)	*0.008
Tin (Sn)	*0.008
Vanadium (V)	*0.008
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.12	
Calcium (Ca)	63.0	
Chlorides (Cl)	63.0	34.0
Fluoride (F)	0.4	
Hardness	192.0	168.0
Magnesium (Mg)	8.3	
Nitrates (NO_3)	1.9	
Selenium (Se)	*0.01	
Sodium (Na)	34.0	
Sulfates (SO_4)	57.0	
Total Dissolved Solids	331.0	
PH		7.7
Color (S.U.)	0.0	
Temperature °F (Raw Water)		66.0
Turbidity (S.U.)		

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	3.5
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	93
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

WICHITA FALLS, TEXAS
(pop. 101,724)

Ownership PUBLIC Population Served 101 thousand

River Basin SOUTHWEST LOWER MISSISSIPPI (Major) UPPER RED RIVER BASIN (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION, DISINFECTION & SOFTENING

Design Capacity 24.5 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 26 - June 10, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.02
Barium (Ba)	0.04
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.006
Chromium (Cr)	*0.002
Cobalt (Co)	*0.004
Copper (Cu)	0.002
Iron (Fe)	0.02
Lead (Pb)	*0.01
Manganese (Mn)	*0.008
Molybedenum (Mo)	*0.004
Nickel (Ni)	*0.004
Tin (Sn)	*0.004
Vanadium (V)	*0.004
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.15	
Calcium (Ca)	13.0	
Chlorides (Cl)	38.0	26.0
Fluoride (F)	0.6	
Hardness	56.0	61.0
Magnesium (Mg)	5.8	
Nitrates (NO_3)	1.8	
Selenium (Se)	*0.01	
Sodium (Na)	28.0	
Sulfates (SO_4)	24.0	
Total Dissolved Solids	180.0	
PH		9.6
Color (S.U.)		
Temperature °F (Raw Water)		65.0
Turbidity (S.U.)		0.0

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	3.5
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	33
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CHATTANOOGA, TENNESSEE
(pop. 130,009)

Ownership PRIVATE Population Served 225 thousand

River Basin TENNESSEE RIVER (Major) MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 52 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 12 - July 28, 1961

Results By
Spectographic Analvses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	0.03
Bismuth (Bi)	*0.007
Cadmium (Cd)	*0.004
Chromium (Cr)	*0.001
Cobalt (Co)	*0.003
Copper (Cu)	0.007
Iron (Fe)	0.004
Lead (Pb)	*0.007
Manganese (Mn)	0.07
Molybedenum (Mo)	0.007
Nickel (Ni)	*0.003
Tin (Sn)	0.008
Vanadium (V)	*0.003
Zinc (Zn)	*0.7
Beryllium (Be)	*0.00007

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.04	
Arsenic (As)	*0.01	
Boron (B)	0.08	
Calcium (Ca)	26.0	
Chlorides (Cl)		11.0
Fluoride (F)	0.8	0.8
Hardness	84.0	87.0
Magnesium (Mg)	4.9	
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	4.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		7.7
Color (S.U.)		2.0
Temperature °F (Raw Water)		61.0
Turbidity (S.U.)		0.0

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	45.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	97
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CLARKSVILLE, TENNESSEE
(pop. 22,021)

Ownership PUBLIC Population Served 22 thousand

River Basin OHIO RIVER (Major) CUMBERLAND RIVER (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 4 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 6 - July 24, 1961

Results By Spectographic Analyses — Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.04	
Barium (Ba)	0.01	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.007	Boron (B)	0.06	
Cadmium (Cd)	*0.004	Calcium (Ca)	25.0	
Chromium (Cr)	*0.001	Chlorides (Cl)		
Cobalt (Co)	*0.002	Fluoride (F)	0.5	
Copper (Cu)	0.07	Hardness	84.0	
Iron (Fe)	0.004	Magnesium (Mg)	5.3	
Lead (Pb)	*0.007	Nitrates (NO_3)		
Manganese (Mn)	*0.006	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.003	Sodium (Na)	3.6	
Nickel (Ni)	*0.003	Sulfates (SO_4)		
Tin (Sn)	*0.003	Total Dissolved Solids		
Vanadium (V)	*0.003	PH		
Zinc (Zn)	*0.7	Color (S.U.)		
Beryllium (Be)	*0.00007	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses — Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	85
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	*3.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

KNOXVILLE, TENNESSEE
(pop. 111,827)

Ownership PUBLIC Population Served 175 thousand

River Basin TENNESSEE RIVER (Major) MAIN STEM (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 25 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

August 18 - September 1, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.02
Barium (Ba)	0.05
Bismuth (Bi)	*0.009
Cadmium (Cd)	*0.005
Chromium (Cr)	*0.002
Cobalt (Co)	*0.003
Copper (Cu)	0.005
Iron (Fe)	0.03
Lead (Pb)	*0.009
Manganese (Mn)	*0.007
Molybedenum (Mo)	*0.003
Nickel (Ni)	*0.003
Tin (Sn)	*0.003
Vanadium (V)	*0.003
Zinc (Zn)	*0.9
Beryllium (Be)	*0.00009

Results By
Chemical And Physical Analyses(1

	mg/1	mg/1
ABS	0.05	
Arsenic (As)	*0.01	
Boron (B)	0.03	
Calcium (Ca)	45.0	36.0
Chlorides (Cl)		36.0
Fluoride (F)	0.2	0.2
Hardness	132.0	113.0
Magnesium (Mg)	4.9	4.9
Nitrates (NO_3)		
Selenium (Se)	*0.01	
Sodium (Na)	15.0	
Sulfates (SO_4)		
Total Dissolved Solids		
PH		7.6
Color (S.U.)		-
Temperature °F (Raw Water)		
Turbidity (S.U.)		1.0

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	113
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BURLINGTON, VERMONT
(pop. 35,531)

Ownership PUBLIC Population Served 45 thousand

River Basin LAKE CHAMPLAIN (Major) LAKE CHAMPLAIN (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 10 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 11 - January 25, 1961

Results By Spectographic Analyses

	mg/1
Antimony (Sb)	*0.007
Barium (Ba)	0.007
Bismuth (Bi)	*0.004
Cadmium (Cd)	*0.002
Chromium (Cr)	0.01
Cobalt (Co)	*0.001
Copper (Cu)	0.007
Iron (Fe)	0.01
Lead (Pb)	*0.004
Manganese (Mn)	*0.003
Molybedenum (Mo)	*0.001
Nickel (Ni)	0.002
Tin (Sn)	*0.001
Vanadium (V)	*0.001
Zinc (Zn)	*0.4
Beryllium (Be)	*0.00004

Results By Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.20	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	17.6	
Chlorides (Cl)	6.0	
Fluoride (F)	1.1	
Hardness	80.0	
Magnesium (Mg)	8.7	
Nitrates (NO_3)	0.1	
Selenium (Se)	*0.001	
Sodium (Na)	3.6	
Sulfates (SO_4)		
Total Dissolved Solids	250.0	
PH		
Color (S.U.)	5.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	5.0	

Results By Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	2.9
Suspended	*2.6

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	91
Carbon Alcohol Extractables (CAE)	276

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NORFOLK, VIRGINIA
(pop. 305,872)
MOORE'S BRIDGE PLANT

Ownership Public Population Served 185 thousand

River Basin - (Major) - (Minor)

Source River Raw Water Capacity Range Unlimited

Treatment Purification, disinfection

Design Capacity 48mgd % Municipal Supply Furnished By Plant 50%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 15 - May 29, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.01	ABS	0.02	
Barium (Ba)	0.006	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.006	Boron (B)	0.06	
Cadmium (Cd)	*0.004	Calcium (Ca)	30.0	
Chromium (Cr)	*0.001	Chlorides (Cl)	22.4	
Cobalt (Co)	*0.003	Fluoride (F)	0.93	
Copper (Cu)	0.09	Hardness	104.0	
Iron (Fe)	0.03	Magnesium (Mg)	7.3	
Lead (Pb)	*0.006	Nitrates (NO_3)	*0.1	
Manganese (Mn)	0.05	Selenium (Se)	*0.01	
Molybedenum (Mo	0.006	Sodium (Na)	7.5	
Nickel (Ni)	*0.003	Sulfates (SO_4)	27.6	
Tin (Sn)	0.006	Total Dissolved Solids	162.0	
Vanadium (V)	*0.003	PH		
Zinc (Zn)	*0.6	Color (S.U.)		
Beryllium (Be)	*0.00006	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	3.5
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	114
Carbon Alcohol Extractables (CAE)	172

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NORFOLK, VIRGINIA
(pop. 305,872)
37th STREET PLANT

Ownership Public Population Served 185 thousand

River Basin - (Major) - (Minor)

Source Lakes Raw Water Capacity Range -

Treatment Purification, Disinfection

Design Capacity 20.65mgd % Municipal Supply Furnished By Plant 50%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 16 - May 30, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.01
Barium (Ba)	0.03
Bismuth (Bi)	*0.005
Cadmium (Cd)	*0.003
Chromium (Cr)	*0.001
Cobalt (Co)	*0.002
Copper (Cu)	0.0005
Iron (Fe)	0.02
Lead (Pb)	*0.005
Manganese (Mn)	*0.004
Molybedenum (Mo)	*0.002
Nickel (Ni)	*0.002
Tin (Sn)	*0.002
Vanadium (V)	*0.002
Zinc (Zn)	*0.5
Beryllium (Be)	*0.00005

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.03	
Calcium (Ca)	27.0	
Chlorides (Cl)	15.3	
Fluoride (F)	1.16	
Hardness	88.0	
Magnesium (Mg)	4.9	
Nitrates (NO_3)	0.0	
Selenium (Se)	*0.01	
Sodium (Na)	5.0	
Sulfates (SO_4)	14.8	
Total Dissolved Solids	125.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)		

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	117
Carbon Alcohol Extractables (CAE)	168

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PORTSMOUTH, VIRGINIA
(pop. 114,773)

Ownership Public Population Served 155 thousand

River Basin - (Major) - (Minor)

Source Lakes Raw Water Capacity Range -

Treatment Purification, disinfection

Design Capacity 21.22mgd % Municipal Supply Furnished By Plant 100%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

August 21 - September 7, 1961

Results By Spectographic Analyses		Results By Chemical And Physical Analyses(1)		
	mg/l		mg/l	mg/l
Antimony (Sb)	0.007	ABS	0.06	
Barium (Ba)	0.02	Arsenic (As)	0.01	
Bismuth (Bi)	0.003	Boron (B)	0.18	
Cadmium (Cd)	0.002	Calcium (Ca)	15.0	
Chromium (Cr)	0.0007	Chlorides (Cl)	15.6	
Cobalt (Co)	0.001	Fluoride (F)	1.1	
Copper (Cu)	0.15	Hardness	40.0	
Iron (Fe)	0.04	Magnesium (Mg)	0.5	
Lead (Pb)	0.003	Nitrates (NO_3)	*0.1	
Manganese (Mn)	0.02	Selenium (Se)	0.01	
Molybedenum (Mo)	0.003	Sodium (Na)	36.0	
Nickel (Ni)	0.001	Sulfates (SO_4)	11.4	
Tin (Sn)	0.001	Total Dissolved Solids	143.0	
Vanadium (V)	0.001	PH		
Zinc (Zn)	0.3	Color (S.U.)		
Beryllium (Be)	0.00003	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	10.0
Suspended	35.0

Results By Carbon Adsorption Method (CAM)	ppb
Carbon Chloroform Extractables (CCE)	149
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

RICHMOND, VIRGINIA
(pop. 219,958)

Ownership PUBLIC Population Served 271 thousand

River Basin NORTH ATLANTIC (Major) JAMES RIVER BASIN (Minor)

Source RIVER, IMPOUNDED RESERVOIR Raw Water Capacity Range 100 m.-1bil. gal.

Treatment PURIFICATION & DISINFECTION

Design Capacity 66 mgd % Municipal Supply Furnished By Plant 100%

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

December 6 - December 21, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	0.009	ABS	0.04	
Barium (Ba)	0.02	Arsenic (As)	0.01	
Bismuth (Bi)	0.005	Boron (B)	0.09	
Cadmium (Cd)	0.003	Calcium (Ca)	19.0	
Chromium (Cr)	0.001	Chlorides (Cl)	7.4	
Cobalt (Co)	0.002	Fluoride (F)	1.0	0.9
Copper (Cu)	0.04	Hardness	76.0	68.0
Iron (Fe)	0.07	Magnesium (Mg)	6.8	
Lead (Pb)	0.005	Nitrates (NO$_3$)	0.2	
Manganese (Mn)	0.02	Selenium (Se)	0.01	
Molybedenum (Mo	0.002	Sodium (Na)	5.0	
Nickel (Ni)	0.002	Sulfates (SO$_4$)	23.3	
Tin (Sn)	0.002	Total Dissolved Solids	112.0	
Vanadium (V)	0.002	PH		8.7
Zinc (Zn)	0.5	Color (S.U.)		2.0
Beryllium (Be)	0.00005	Temperature $^{\circ}$F (Raw Water)		58.2
		Turbidity (S.U.)		0.1

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	44
Suspended		Carbon Alcohol Extractables (CAE)	166
Beta Activity			
Dissolved	10.0		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BELLINGHAM, WASHINGTON
(pop. 34,688)
LAKE PADDEN

Ownership Public Population Served 39 thousand

River Basin Nooksack (Major) Middle Fork N. River (Minor)

Source Lake Raw Water Capacity Range Unlimited

Treatment Disinfection

Design Capacity 100 mgd % Municipal Supply Furnished By Plant 50

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

February 22 - March 8, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.004
Barium (Ba)	0.02
Bismuth (Bi)	*0.002
Cadmium (Cd)	*0.001
Chromium (Cr)	*0.0004
Cobalt (Co)	*0.0008
Copper (Cu)	0.09
Iron (Fe)	
Lead (Pb)	0.01
Manganese (Mn)	0.03
Molybedenum (Mo)	*0.0008
Nickel (Ni)	0.004
Tin (Sn)	0.0008
Vanadium (V)	*0.0008
Zinc (Zn)	*0.2
Beryllium (Be)	*0.00002

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.07	
Arsenic (As)	*0.01	
Boron (B)	0.09	
Calcium (Ca)	7.2	
Chlorides (Cl)	7.3	
Fluoride (F)	0.1	
Hardness	32.0	
Magnesium (Mg)	3.4	
Nitrates (NO_3)	1.5	
Selenium (Se)	*0.005	
Sodium (Na)	5.5	
Sulfates (SO_4)	5.9	
Total Dissolved Solids	124.0	
PH		
Color (S.U.)	0.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	78
Carbon Alcohol Extractables (CAE)	117

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

BELLINGHAM, WASHINGTON
(pop. 34,688)
LAKE WHATCOM

Ownership Public   Population Served 39 thousand

River Basin Nooksack (Major)   Middle Fork N. River (Minor)

Source Lake   Raw Water Capacity Range Unlimited

Treatment Disinfection

Design Capacity 100 mgd   % Municipal Supply Furnished By Plant 50

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

February 7 - February 21, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.1	ABS	*0.01	
Barium (Ba)	*0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.05	Boron (B)	0.01	
Cadmium (Cd)	*0.03	Calcium (Ca)	7.2	
Chromium (Cr)	*0.01	Chlorides (Cl)	4.4	
Cobalt (Co)	*0.02	Fluoride (F)	0.05	
Copper (Ca)	0.04	Hardness	64.0	
Iron (Fe)	0.02	Magnesium (Mg)	11.8	
Lead (Pb)	*0.05	Nitrates (NO_3)	0.3	
Manganese (Mn)	*0.04	Selenium (Se)	*0.005	
Molybedenum (Mo)	*0.02	Sodium (Na)	3.0	
Nickel (Ni)	*0.02	Sulfates (SO_4)	2.5	
Tin (Sn)	*0.02	Total Dissolved Solids	91.5	
Vanadium (V)	*0.02	PH		
Zinc (Zn)	*5.0	Color (S.U.)	0.0	
Beryllium (Be)	*0.0005	Temperature °F (Raw Water)		
		Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	57
Suspended		Carbon Alcohol Extractables (CAE)	103
Beta Activity			
Dissolved			
Suspended			

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

LONGVIEW, WASHINGTON
(pop. 23,349)

Ownership PUBLIC Population Served 32 thousand

River Basin COLUMBIA RIVER (Major) COWLITZ (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 6 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

January 17 - January 31, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.005
Barium (Ba)	0.002
Bismuth (Bi)	*0.002
Cadmium (Cd)	*0.001
Chromium (Cr)	*0.0005
Cobalt (Co)	*0.0009
Copper (Cu)	0.002
Iron (Fe)	0.02
Lead (Pb)	*0.002
Manganese (Mn)	0.03
Molybedenum (Mo)	*0.0009
Nickel (Ni)	0.0009
Tin (Sn)	*0.0009
Vanadium (V)	*0.0009
Zinc (Zn)	*0.2
Beryllium (Be)	*0.00002

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.01	
Calcium (Ca)	8.0	
Chlorides (Cl)	4.2	
Fluoride (F)	1.1	
Hardness	40.0	22.0
Magnesium (Mg)	4.9	
Nitrates (NO_3)	0.2	
Selenium (Se)	*0.001	
Sodium (Na)	3.2	
Sulfates (SO_4)		
Total Dissolved Solids	4.0	
PH		7.2
Color (S.U.)	0.0	
Temperature °F (Raw Water)		52.0
Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	26
Carbon Alcohol Extractables (CAE)	115

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

PASCO, WASHINGTON
(pop. 14,522)

Ownership PUBLIC Population Served 14 thousand

River Basin PACIFIC NORTHWEST (Major) COLUMBIA RIVER BASIN (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 21 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

June 5 - June 19, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.005
Barium (Ba)	0.02
Bismuth (Bi)	*0.002
Cadmium (Cd)	*0.001
Chromium (Cr)	0.0009
Cobalt (Co)	*0.0009
Copper (Cu)	0.002
Iron (Fe)	0.01
Lead (Pb)	*0.002
Manganese (Mn)	*0.002
Molybedenum (Mo)	0.002
Nickel (Ni)	*0.0009
Tin (Sn)	*0.0009
Vanadium (V)	*0.0009
Zinc (Zn)	*0.2
Beryllium (Be)	*0.00002

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.09	
Calcium (Ca)	20.0	
Chlorides (Cl)	4.7	
Fluoride (F)	0.2	
Hardness	60.0	70.0
Magnesium (Mg)	2.4	
Nitrates (NO_3)	0.5	
Selenium (Se)	*0.01	
Sodium (Na)	1.4	
Sulfates (SO_4)	13.3	
Total Dissolved Solids	76.6	
PH		7.6
Color (S.U.)	1.0	
Temperature °F (Raw Water)		53.0
Turbidity (S.U.)	0.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	94
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

SPOKANE, WASHINGTON
(pop. 181,608)

Ownership PUBLIC Population Served 182 thousand

River Basin COLUMBIA RIVER (Major) SPOKANE RIVER (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

July 26 - August 10, 1961

Results By Spectographic Analyses	mg/l	Results By Chemical And Physical Analyses(1)	mg/l	mg/l
Antimony (Sb)	*0.02	ABS	0.01	
Barium (Ba)	0.02	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.009	Boron (B)	0.09	
Cadmium (Cd)	*0.005	Calcium (Ca)	35.0	
Chromium (Cr)	0.009	Chlorides (Cl)	1.5	
Cobalt (Co)	*0.003	Fluoride (F)	0.14	
Copper (Cu)	*0.0005	Hardness	160.0	
Iron (Fe)	0.03	Magnesium (Mg)	17.0	
Lead (Pb)	*0.009	Nitrates (NO_3)	0.2	
Manganese (Mn)	*0.007	Selenium (Se)	*0.01	
Molybedenum (Mo)	0.005	Sodium (Na)	3.0	
Nickel (Ni)	*0.003	Sulfates (SO_4)	9.9	
Tin (Sn)	*0.003	Total Dissolved Solids	152.0	
Vanadium (V)	*0.003	PH		
Zinc (Zn)	*0.9	Color (S.U.)	2.0	
Beryllium (Be)	*0.00009	Temperature °F (Raw Water)		
		Turbidity (S.U.)	2.0	

Results By Radiochemical Analyses	uuc/l	Results By Carbon Adsorption Method (CAM)	ppb
Alpha Activity			
Dissolved	*0.5	Carbon Chloroform Extractables (CCE)	10
Suspended	*0.5	Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	5.7		
Suspended	2.3		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

HUNTINGTON, WEST VIRGINIA
(pop. 83,627)

Ownership PRIVATE Population Served 105 thousand

River Basin OHIO RIVER (Major) MAIN STEM (Minor)

Source RIVER Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 20 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

December 9 - December 27, 1960

Results By Spectographic Analyses | Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.03	ABS	0.12	
Barium (Ba)	0.7	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.07	
Cadmium (Cd)	*0.01	Calcium (Ca)	62.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	36.0	
Cobalt (Co)	*0.007	Fluoride (F)	1.1	1.2
Copper (Cu)	0.003	Hardness	192.0	164.0
Iron (Fe)	0.07	Magnesium (Mg)	8.7	
Lead (Pb)	*0.02	Nitrates (NO_3)	0.5	
Manganese (Mn)	0.3	Selenium (Se)	0.004	
Molybedenum (Mo)	*0.007	Sodium (Na)	38.0	
Nickel (Ni)	0.01	Sulfates (SO_4)	96.0	
Tin (Sn)	*0.007	Total Dissolved Solids	268.0	
Vanadium (V)	*0.007	PH		7.3
Zinc (Zn)	*2.0	Color (S.U.)	5.0	
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		55.0
		Turbidity (S.U.)	0.0	0.0

Results By Radiochemical Analyses | Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity		Carbon Chloroform Extractables (CCE)	92
Dissolved		Carbon Alcohol Extractables (CAE)	162
Suspended			
Beta Activity			
Dissolved	2.2		
Suspended	*1.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

GREEN BAY, WISCONSIN
(pop. 62,888)

Ownership PUBLIC   Population Served 64 thousand

River Basin WESTERN GREAT LAKES (Major)   FOX-WOLF (Minor)

Source LAKE   Raw Water Capacity Range UNLIMITED

Treatment PURIFICATION & DISINFECTION

Design Capacity 20 mgd   % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 16 - June 3, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.01
Barium (Ba)	0.009
Bismuth (Bi)	*0.007
Cadmium (Cd)	*0.004
Chromium (Cr)	*0.001
Cobalt (Co)	*0.003
Copper (Cu)	0.01
Iron (Fe)	0.007
Lead (Pb)	*0.007
Manganese (Mn)	*0.006
Molybedenum (Mo)	*0.003
Nickel (Ni)	*0.003
Tin (Sn)	*0.003
Vanadium (V)	*0.003
Zinc (Zn)	*0.7
Beryllium (Be)	*0.00007

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.01	
Arsenic (As)	*0.01	
Boron (B)	0.06	
Calcium (Ca)	34.0	
Chlorides (Cl)	7.0	
Fluoride (F)	1.3	1.0
Hardness	144.0	
Magnesium (Mg)	14.0	
Nitrates (NO_3)	0.2	
Selenium (Se)	*0.01	
Sodium (Na)	3.5	
Sulfates (SO_4)	21.0	
Total Dissolved Solids	154.0	
PH		7.6
Color (S.U.)	0.0	
Temperature °F (Raw Water)		44.0
Turbidity (S.U.)	1.0	0.2

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	49
Carbon Alcohol Extractables (CAE)	130

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MADISON, WISCONSIN
(pop. 126,706)

Ownership PUBLIC Population Served 135 thousand

River Basin UPPER MISSISSIPPI (Major) ROCK (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment

Design Capacity 412 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

July 18 - August 1, 1961

Results By Spectographic Analyses

Results By Chemical And Physical Analyses(1)

	mg/l		mg/l	mg/l
Antimony (Sb)	*0.03	ABS	0.04	
Barium (Ba)	*0.007	Arsenic (As)	*0.01	
Bismuth (Bi)	*0.02	Boron (B)	0.06	
Cadmium (Cd)	*0.01	Calcium (Ca)	59.0	
Chromium (Cr)	*0.003	Chlorides (Cl)	6.2	
Cobalt (Co)	*0.007	Fluoride (F)	0.98	1.0
Copper (Cu)	0.002	Hardness	316.0	
Iron (Fe)	0.1	Magnesium (Mg)	40.0	
Lead (Pb)	*0.02	Nitrates (NO_3)	1.0	
Manganese (Mn)	0.1	Selenium (Se)	*0.01	
Molybedenum (Mo)	*0.007	Sodium (Na)	4.0	
Nickel (Ni)	*0.007	Sulfates (SO_4)	23.2	
Tin (Sn)	*0.007	Total Dissolved Solids	344.1	
Vanadium (V)	*0.007	PH		
Zinc (Zn)	*2.0	Color (S.U.)		
Beryllium (Be)	*0.0002	Temperature °F (Raw Water)		
		Turbidity (S.U.)		

Results By Radiochemical Analyses

Results By Carbon Adsorption Method (CAM)

	uuc/l		ppb
Alpha Activity			
Dissolved		Carbon Chloroform Extractables (CCE)	22
Suspended		Carbon Alcohol Extractables (CAE)	
Beta Activity			
Dissolved	3.8		
Suspended	*3.0		

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

MANITOWOC, WISCONSIN
(pop. 32,275)

Ownership PUBLIC Population Served 31.6 thousand

River Basin WESTERN GREAT LAKES (Major) LAKE MICHIGAN-WESTERN SHORE (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 25 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

May 17 - May 31, 1961

Results By Spectographic Analyses

	mg/l
Antimony (Sb)	*0.02
Barium (Ba)	0.05
Bismuth (Bi)	*0.01
Cadmium (Cd)	*0.007
Chromium (Cr)	0.007
Cobalt (Co)	*0.005
Copper (Cu)	0.2
Iron (Fe)	0.05
Lead (Pb)	*0.01
Manganese (Mn)	0.01
Molybedenum (Mo)	*0.005
Nickel (Ni)	0.05
Tin (Sn)	*0.005
Vanadium (V)	*0.005
Zinc (Zn)	*1.0
Beryllium (Be)	*0.0001

Results By Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.01	
Arsenic (As)	*0.01	
Boron (B)	0.09	
Calcium (Ca)	54.0	
Chlorides (Cl)	7.5	
Fluoride (F)	0.24	
Hardness	236.0	
Magnesium (Mg)	24.0	
Nitrates (NO_3)	0.5	
Selenium (Se)	*0.01	
Sodium (Na)	4.0	
Sulfates (SO_4)	48.0	
Total Dissolved Solids	262.0	
PH		
Color (S.U.)	8.0	
Temperature °F (Raw Water)		
Turbidity (S.U.)	*1.0	

Results By Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	*3.0
Suspended	*3.0

Results By Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	36
Carbon Alcohol Extractables (CAE)	121

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

NEENAH, WISCONSIN
(pop. 18,057)

Ownership PUBLIC Population Served 18 thousand

River Basin WESTERN GREAT LAKES (Major) FOX-WOLF (Minor)

Source LAKE Raw Water Capacity Range UNLIMITED

Treatment

Design Capacity 7 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES
OF A COMPOSITE SAMPLE OF FINISHED WATER

May 18 - June 3, 1961

Results By
Spectographic Analyses

	mg/1
Antimony (Sb)	*0.009
Barium (Ba)	*0.002
Bismuth (Bi)	*0.0004
Cadmium (Cd)	*0.003
Chromium (Cr)	*0.0009
Cobalt (Co)	*0.002
Copper (Cu)	0.0009
Iron (Fe)	0.02
Lead (Pb)	*0.004
Manganese (Mn)	*0.004
Molybedenum (Mo)	*0.002
Nickel (Ni)	*0.002
Tin (Sn)	0.003
Vanadium (V)	*0.002
Zinc (Zn)	*4.0
Beryllium (Be)	*0.000004

Results By
Chemical And Physical Analyses(1)

	mg/1	mg/1
ABS	0.02	
Arsenic (As)	*0.01	
Boron (B)	0.04	
Calcium (Ca)	14.0	
Chlorides (Cl)	8.5	
Fluoride (F)	1.2	1.0
Hardness	84.0	
Magnesium (Mg)	11.0	
Nitrates (NO_3)	0.0	
Selenium (Se)	*0.01	
Sodium (Na)	3.0	
Sulfates (SO_4)	25.0	
Total Dissolved Solids	106.0	
PH		9.0
Color (S.U.)	0.0	
Temperature °F (Raw Water)		52.0
Turbidity (S.U.)	1.0	

Results By
Radiochemical Analyses

	uuc/1
Alpha Activity	
Dissolved	*0.5
Suspended	*0.5
Beta Activity	
Dissolved	2.9
Suspended	*3.0

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	73
Carbon Alcohol Extractables (CAE)	

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

CASPER, WYOMING
(pop. 38,930)

Ownership PUBLIC Population Served 41 thousand

River Basin MISSOURI RIVER (Major) NORTH PLATTE (Minor)

Source GROUND WATER SUPPLY Raw Water Capacity Range

Treatment DISINFECTION

Design Capacity 21 mgd % Municipal Supply Furnished By Plant 100

CHEMICAL AND PHYSICAL ANALYSES OF A COMPOSITE SAMPLE OF FINISHED WATER

November 18 - December 5, 1960

Results By
Spectographic Analyses

	mg/l
Antimony (Sb)	*0.04
Barium (Ba)	0.02
Bismuth (Bi)	*0.02
Cadmium (Cd)	*0.01
Chromium (Cr)	*0.004
Cobalt (Co)	*0.009
Copper (Cu)	0.3
Iron (Fe)	0.04
Lead (Pb)	0.2
Manganese (Mn)	*0.02
Molybedenum (Mo)	*0.009
Nickel (Ni)	*0.009
Tin (Sn)	*0.009
Vanadium (V)	*0.009
Zinc (Zn)	*2.0
Beryllium (Be)	*0.0002

Results By
Chemical And Physical Analyses(1)

	mg/l	mg/l
ABS	0.03	
Arsenic (As)	*0.01	
Boron (B)	0.1	
Calcium (Ca)	72.0	
Chlorides (Cl)	17.8	
Fluoride (F)	0.5	
Hardness	252.0	
Magnesium (Mg)	17.5	
Nitrates (NO_3)	13.1	
Selenium (Se)	0.003	
Sodium (Na)	59.0	
Sulfates (SO_4)	205.6	
Total Dissolved Solids	486.0	
PH		
Color (S.U.)		
Temperature °F (Raw Water)		
Turbidity (S.U.)	3.0	

Results By
Radiochemical Analyses

	uuc/l
Alpha Activity	
Dissolved	
Suspended	
Beta Activity	
Dissolved	
Suspended	

Results By
Carbon Adsorption Method (CAM)

	ppb
Carbon Chloroform Extractables (CCE)	29
Carbon Alcohol Extractables (CAE)	138

(1)NOTE: Second column of figures are results of a year's average, from plant operation records.

* Less than

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